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American Railroad Journal

Saturday, August 28, 1852.

Importance of Natural Science to the Engineer.

The prosecution of the great improvements of the age, in machinery, whereby the products of different regions are now so cheaply interchanged, and the ease and safety of travel so wonderfully inin its pursuits, and liberalizing in its exercise, as physical, social or moral of the family of men.-The present is emphatically the era of machinery, to plan the countless details and submit to the rigid accuracy and measurement of mathematical calcusystem, demand no mean powers of mind and extensive cultivation and experience. For the prothere are means to be employed, and arts to be studied, and no less beautiful and no less important his line or poise his bridges. We consider the profession of an engineer, as elevated and attractive by the professional adviser as well as the manner drawing are over. His facilities for the collection

The high character of the profession is, acknowledged, and the genius of a Stephenson and a Bru- from and take on the authority of a text book. nel have already, during the thirty years that have We greatly desire the elevation of the profession called civil engineering into being, cast a brilliant of the engineer; it is destined to be no temporary closely, as if devoted to any other intellectual call- the grand instrument of development, is to any

to the highest order of intellect as those of the law- and method of satisfying it. The skillful engineer yer or physician. The jurist determines the rela- when called on to direct the physical accomtions of property towards man, but the engineer plishment of a work, must modify it, to suit as well stands at the very head of that system which cre- markets, population and production, as the nature ates property, to an incalculable extent. by teach- of the soil or the existence of streams and mouning the very elements to labor for the benefit and tains. Social and economic science are hence as profit of man. The physician, in discharging his much requisites to him in the discharge of his imduty, as the preserver and restorer of health, is en- portant responsibilities as mathematical knowledge titled to our respect, but we doubt whether the ap- The fact is, that the cognate and auxiliary branches plication of remedial agents prove as effectual in in an art, sometimes are felt to be of more importprolonging the average of life, as the cheapened ance than its proper scientific basis. That accurcomforts and the diffusion of necessaries among the ate judgment in matters of growth and development masses, brought about by the agency of the engi-business men acquire, may often be found more neer and the works he plans and directs towards valuable to the engineer than the ability to solve a difficult but remote mathematical problem, the results of which the practical man may appropriate

lustre on its history. It already has its heroes and or occasional employment, but must go forward bright examples, and the youthful aspirant for its with rapid steps. England and the United States honors is required to toil as patiently and study as are the only countries where the railroad system, ing. Railroads and canals, steamships and tele- large extent completed. But has it reached its graphs are the common interest of mankind; and limit in either country? No it ceaselessly grows the art which constructs them has an equally wide and must continue to do so, and by the time that value as the uses of the engines it calls into being. new works begin to halt, the old ones must be made All have a stake in the intellect, which renders on a new basis. The profession is necessary, not these works safe and efficient. It is an ambition accidental or temporary, and it is worthy of the worthy of the noblest genius, to become an accom- best efforts of talent and study. Among the plished engineer, and the elevation of the profession branches which at first seem rather superfluous are should be the aim of all its members. How shall those which belong to natural history—the study of creased, has raised up a profession as intellectual this be effected? The only way is of course, the organic forms and the history of the earth and its path of study and well directed cultivation. But material constitution and changes. In the first any of those departments in which human art has like all the other professions, the complete master place, these studies are most delightful, and exaltbeen heretofore called on, to minister to the wants of it, and the man who cultivates it aright must ing in themselves, and have a peculiarly happy inhave a wider range than that of the mere routine fluence on the mind. The contemplation of objects of its proper business. While skill and experi- of Natural History may take the bent of each inwe are fed and clothed mainly by its agency, and ence in the solution of the various mathematical dividual intellect and be cultivated in any direction and mechanical problems are indispensable to the as shall be most convenient, or to any extent.engineer, there are requirements besides these, to Viewed in detail or broadly generalized it is equallations, the varied parts of this vast and growing enable him fully to discharge his duty as the ad- ly pleasant and useful. The specimens necessary viser and counsellor of the company, which em- for the study are in the way of the engineer, he can ploys his talents and services. All the professions pick up a flower, a mineral or a shell as they lie in tection of property and the preservation of health, offer means to the accomplishment of certain needs, his path, and examine them at his leisure. The and the necessity for them must be felt, before it is recreation to the mind afforded by this change of possible, that those versed in them can receive em- employment, is of no little moment, at times when are the sciences which teach the engineer to run ployment. But the urgency, extent and grounds the engineer is removed from books and society, even of such necessity are problems to be judged and when the laborious duties of calculation and

advantage thus of the numerous out-door explorations required by his business; especially as it need not lead to any neglect of the main objects of his occupation. His travel backward and forward over long lines of country enables him to acquire a familiar geological as well as a mere topographical knowledge, of the localities and the regions he traverses not possessed by mere stationary students of geology. Again, the excavations and deep cuts which are necessary at many points on a line, enable him to study the rocks, and veins, and obtain the minerals and fossils of the country more easily than superficial observers. These are a few of the advantages which the nature of his employment gives.

We believe, however, that the interests of companies and those of the country are intimately connected with the efficiency of the great engineering corps, and this efficiency is greatly increased by their adding natural science to their indispensable mathematical and mechanical acquirements. We conceive that no company could doubt that between two engineers of equal reputation and talent, it was for their profit to secure the services of the man, who was in addition to his mechanical attainments a competent geologist. It might be that no advantage would result from his special knowledge, and again, there might be benefits derived from it of incalculable value to the owners of the road, and the public. This chance is surely not to be neglected. The mineral riches of this country are great beyond comparison, we merely at present reap the superfluous treasures, which are found on the surface, as it were. When the country is more densely populated and that diversity of employment arises, which is wont in rich and populous countries, the development of these treasures economically and scientifically, will call for engineers either to add geology to their list of necessary sciences or else demand the education of a special class of engineers of mining. In this connection, the all-important science of chemistry will find place among the auxiliaries, of the complete engineer. The observations on soil, climate, meteorology and physical geography, generally, are studies evidently cognate with geology, and at once within the scope of the engineer's profession and most probably agreeable to his tastes.

We throw out these suggestions in the hope of inducing a closer union and systematic cultivation of the natural sciences, by engineers. We know many of them are naturalists of eminence, and the geological observations of our engineers, have often been of great scientific and practical value. We think it a duty that exploring parties owe to their country and one that would be doubtless encouraged, by companies generally, to verity and add to the geological observations of the States, where surveys of this sort have been made, where none have been commenced, to contribute materials that may facilitate such an undertaking. Our geologists, from the practical character of the country, should be also engineers and engineers should be geologists; and geology in its widest significance finally brings in the whole circle of organic life, vegetable and animal-both that belonging to the antique eras of the earth and the recent. We feel that our remarks will be taken in good part, by that noble profession which is the informing intellect of the mechanical world; and it we can induce young engineers to add to their mathematical studies, those belonging to the wide field of nature,

and observation of rare specimens must not be over- they will not regret the step, which must add to tons as a tension to which the cables may be sublooked, and it is a waste of opportunity not to take their usefulness as engineers while it will tend to jected, five times the strength to meet it is allowed, make them happy and wise in the possession of truths, which if not so lefty as those, which pertain to man, are at least unsulfied by crime and unalloved by misery.

The New Suspension Bridge.

We give below, the proportions and other statis-tics of the Suspension bridge about to be built over the present one at the Falls. It is with great pleasure that we notice the activity which prevails, in reference to the new bridge, as also in the construc-tion of the railroad. We have no doubt on our tion of the railroad. We have no doubt on our own mind, but that Canada is destined to take her proper position among surrounding nations, and the present railroad enterprise will hasten the consummation so devoutly to be wished. When we can travel from the eastern to the western provinces by railroad—when we can transmit our produce, through our own territory, to the English market— then, and not till then, will we be in a position to compete with our neighbors in a friendly race for travel and commerce.

The bridge will form a single span of 800 feet in length. It is to serve as a connecting link between the railroads of Canada and the state of New York and to accommodate the common travel of the two countries. It is established by ample experience, that good iron wire, if properly united into cables or ropes, is the best material for the support of loads and concussions, in virtue of its great absolute cohesion, which amounts to from 90,000 to 130,000 lbs. per quarter inch, according to quality. The bridge will form a straight hollow beam of 20 feet wide and 18 feet deep, composed of top, bottom and sides.

The upper floor which supports the railroad, is 24 feet wide between the railings, and suspended to two wire cables, assisted by stays. The lower floor is 19 feet wide and 15 high in the clear, connected with the upper one by vertical trusses, forming sides, and suspended on two other cables, which have ten feet more deflection than the upper ones

The anchorage will be formed by sinking eight shaits into the rock, 25 feet deep. The bottom of each shaft will be enlarged for the reception of cast iron anchor plates, of sixteen teet square. These chambers will have a prismatical section, which, when filled with solid masonry, cannot be drawn up without lifting the whole rock to a considerable extent.

Saddles of cast iron will support the cables on the top of the towers. They will consist of two parts—the lower one stationary, and the upper one moveable, resting upon wrought iron rollers. saddles will have to support a pressure of 600 tons whenever the bridge is loaded with a train of maximum weight. The towers are to be 60 feet high 15 feet square at the base and at the top. The compact, hard limestone used in the masonry of the towers, will bear a pressure of 500 tons upon every foot square.

WEIGHT OF BRIDGE.	
Weight of timber	lbs.
Wrought iron and suspenders113,120	
Castings 44,332	
Rails 66,740	
Cables between towers535,400	

2,678,622 WEIGHT OF RAILROAD TRAINS.

One locomotivetons	25
27 double freight cars, each 25 feet long, and	
of 15 tons gross weight	405
Making a total gross weight of 430 tons, which	- 10
will fall upon the cables when the whole	
bridge is covered by a train of cars from end	

to end: add to this 15 per cent increase of pressure as the result of a speed of 5 miles per hour, which is a very large allowance.. Add weight of superstructure 782

Total aggregate maximum weight.....1,273

and an ultimate strength of 10,000 tons provided for. For this purpose, 15,000 wires of No. 10 will be required. At each end of the upper floor the upper cables will be assisted by 18 wire rope stays, and their strength will be equivalent to 1,440 wire these deducted, leave the number of these wires in four superior cables, 13,560—the number of wires in one cable, 3,390—diameter of cable, 94 inches.

The railroad bridge will be elevated 18 feet on the Canadian, and 28 on the American side, above the present surface of the bank, and above the present structure. It will be the longest railroad bridge, between the points of support, in the world.
—St. Catherines Journal.

Finances of Pennsylvania.

Mr. J. J. McCahen, now on a mission from the Executive of the state of Pennsylvania, in London. has addressed the following letter to the loanholders of the state of Pennsylvania:

The undersigned, duly appointed and commissioned by the authorities of the state of Pennsylvania, a commissioner of loans for said state, respectfully announces to the holders of the loans created by her laws, his arrival in this city with all lawful powers to negotiate an exchange of any of the existing obligations of the state, and conclude new loans for a period not exceeding thirty-five years, at a rate of interest not more than four per cent per annum, free from every kind of taxation, so expressed upon the bond, with coupons, or interest certificates attached, payable semi-annually, on the first days of February and August of each year. The bonds to be issued in the sums of one, five, or ten thousand dollars each, according to agreement.

The whole debt of Pennsylvania is forty millions

of dollars or about eight millions of pounds sterling. The state has the right to pay off the same at the periods designated in the following table:

1	At the present time, (and will be paid		
	during the present year	3.314.325	20
f	In the beginning of the year 1853	, -,	-
	(will be paid as soon as the period		
1	arrives)	688,479	51
9	Loan made in 1841	650,163	
2	Bank charter loans, payable at any	050,105	vv
3	time	110 500	00
e	During the year 1853, and January 1.	119,500	vv
			00
e	1854	2,744,057	
8	During the year 1854	2,146,529	
e	Aug. 1, 1855	4,478,040	
e	July 1, 1856	2,781,190	
_	March and July 1, 1858	7,022,233	01
s	July and August 1, 1859	1,209,990	59
h	July 1, 1860	2,582,386	43
e	The remainder of the loans are paya-	. Freder	
70	ble in 1861, '62, '63, '64, '65, '68,		
e	and '70, \$400,000 due in 1789, and		
y	\$850,000 in 1882, amounting in all		
	to	18 062 000	00
	711200000000000000000000000000000000000	0,000,000	00

It will be perceived by the foregoing, that the twill be perceived by the foregoing, that the state has the right to pay off during this year, \$3,-314,325 20. During the year 1853, \$4;207,200 34. During the year 1854, and August 1855, \$6,624,-670 09; and July 1, 1856, \$2,731,190 49.—The first halfyear of 1858, \$7,022,233 01. In two years after, \$4,392,386 02; making an aggregate of \$28,-287,005 20, payable in less than eight years. It is for the holders of these loans to determine, in the present condition of the money market of the world, the prospect of vast accumulation of capital which may become idle or unproductive, or the rates of interest everywhere materially reduced, if it is their interest now to make a permanent investment for

Total.....\$40,784,905 20

any period not exceeding thirty-five years.

Should all or any believe the present opportunity the Executive, Treasurer and Legislature of Pennsylvania has afforded them through her commissioner, worthy of acceptance, the undersigned

the new bonds, he is prepared to negotiate the

The following exhibits the comparative revenue of the state of Pennsylvania, for the years 1843, and 1851, and the estimated revenue of 1852, from general and regular sources. The fiscal year termi nates on the 30th of November.

	1843.	1821.	1852.
Loans	\$8,254 03	\$43,152 96	\$15,000
Auc. Com &	Marie at Land	****	
duties	88,972 28	71,316 47	74,000
Tax on banks		100	17001 10
Cor. and			
their divi-			
dends	67,040 55	392,830 61	420,000
Tax on loans,	0.,010		4001004
offices, en-			
rollments ac	42,844 03	202,672 95	225,000
Tax on real		,	,
and perso-			
nal estate	544.452 06	1,372,170 36	1.400.000
Tax on colla-	,	-,-,-,-,-	-,,
teral inher-			
itances	22,337 05	150,625 48	150,000
Licenses, ret.	,,	,	,
Tav., etc	119,952 34	297,999 90	300,000
Pub. works,	,	.,	
Rail-roads,			
	.019.401 15	1,719,783 54	2,000,000
Other sourc-	, ,	,,	, , , ,
es, ordina-			
nary rec'ts.	1,573 87	70,853 21	100,000
Balance of a-	GO.	,	
vail funds			
at end of			
fiscal year.	115.466 91	543,979 21	1.000,000
Total2	,040,294 27	4,865,398 70	5,760,000

The prosperity of the state cannot be retarded, unless by some improbable casualty; the completion of the last link of her improvements has been provided for, and it is expected that in one year the North Branch canal will pay a revenue upon more than three and a half millions of dollars, hitherto entirely unproductive. The railways are now improving, and being adapted to increased business and celerity in transporting passengers and freight; and we may confidently predict that, in less than and we may confidently predict that, in less than two years, the receipts upon our public works will exceed two and a half millions of dollars per an-num. The single article of anthracite coal will il-lustrate the productive wealth of the state. In 1843 there was sent to market from our eastern coal-fields 1,240,710 tons, and in 1852, 4,383,730 tons— showing an increase of production of 3,143,020 tons. The amount mined in 1852 will equal 5,300,-000 tons.

The proposals for the five million loan, at a rate The proposals for the five million loan, at a rate of interest not exceeding five per cent per annum, for 25 years, advertised to pay off so much of the debt, will be opened at Harrisburg, the capital of the state, Sept. 7. Those who desire to bid for any part of it can leave sealed proposals addressed to the secretary of the Commonwealth, care of the un-dersigned, until the 10th inst. Whatever amount the holders of the loan which the state has now the right to pay off convert, will reduce the allotment

of the same to the bidders.

In thus addressing the loanholders, it may be proper to state, that the authorities of Pennsylvania believed it was due to the holders of our debt in Port Colborne, during the several months of this Europe, to make known to them the passage of the year and last. It proves that the trade of the west Europe, to make known to them the passage of the law authorising the foregoing, and afford them such facilities in embracing its provisions as the presence of an authorised commissioner would give; and also, at the same time, exhibit to them the prosperous condition of her affairs.

state of Pennsylvania.

London, Aug. 5, 1852.

North Carolina.

The Centre railroad through North Carolina which connects with the Charlotte railroad, is graded nearly the entire distance.

The Population and Representation of the United States,

We understand that on the 2d instant the Secretary of the Interior, in compliance with the provisions of the Act of Congress, approved 23d May, 1850, providing for the taking of the seventh and subsequent Censuses, transmitted to the House of Representatives his official certificate of the number of Representatives apportioned to each State, under the last or Seventh Enumeration of the inhabitants of the United States, and that certificates are being prepared to be sent to the Executive of each State of the number to which such State is entitled. These certificates are in accordance with, and founded upon the following table, showing the federal and representative population of the United States on the 1st day of June, 1850:

Population of the United States. Seventh Census, 1850, with the Apportionment of Representation and the

)	the first property	E THOUSON	s for each	ASSURE !		Federal represen-	ead	prest's of ch State.
			Free		1 2 4 4 4	tative pop		-
0	Latti -	Whites.	colored		Slaves.	ulation.	No.	Fract's.
	Maine	581,813	1,356	583,169		533,163	6	22,649
	New Hampshire	317,456	520	317,976	****	317,976	3	37,716
0	Vermont	315,402	718	314,120		314,120	3	33,860
	Massachusetts	985,704	8,795	994.499		994,499	11	*60,299
	Rhode Island	143,875	3,669	147,544		147,544	2	*54,124
0	Connecticut	363,305	7,486	370,791	****	370,791	4	*90,531
	New York		47,937	3,097,394		3.097,394	33	14,534
	Pennsylvania	2,258,463	52,323	2,311,786		2,311,786	25	*69,706
0	Ohio	1,956,108	24,300	1,980,408		1,980,408	21	18,588
-	Indiana	977,628	10,788	988,416		988,416	11	*54,216
a	Illinois	846,104	5,366	851,470		851,470	9	10,690
	Michigan	395,097	2,557	397,654		397,654	4	23,974
	Wisconsin	304,565	626	305,191		305,191	3	24,931
0	Iowa	191,879	335	192,214		192,214	2	5,374
0	California	91,632	965	92,597		92,597	+2	22,365
	New Jersey	465,523	23.807	489,330	225	489,465	5	
0	Delaware	71,169	18,073	89,242	2,290	90,616	1	
U	Maryland	417,913	74,723	492,666	90,368	546.886	6	*79.786
	Virginia	895,304	53,829	949,138	472,528	1,232 649	13	18,189
	North Carolina	553,118	27,373	580,491	288,410	753,538	8	6,178
^	South Carolina	274,623	8.900	283,523	384.984	514.513	6	47.413
V	Georgia	521,438	2.880	524,318	381,681	753,326	8	5,966
-	Alabama	426,486	2,293	428,779	342,892	634,514	7	*73,994
v	Mississippi	295,758	899	296,657	309.898	482,595	5	15,495
,	Louisiana	255,416	17.537	272,953	244.786	419,824	4	46 144
-	Tennessee	755,893	6,271	763,164	239,461	906,840	10	*66,060
a	Kentucky	761,688	9,736	771.424	210,981	898.012	10	*57.232
e	Missouri	592,077	2,544	594,621	87,422	647,074	7	*86,554
е	Arkansas.	162,068	589	162,657	46,982	190,846	2	4.006
0	Florida	47.167	925	48.092	39,309	71,677	ĩ	10 101 10
•	Texas	154,100	331	154.431	58,161	189,327	2	2,487
8	District of Columbia	38,027	9,973	48,000	3,687	******	-	
;		6.038	39	6.077	0,001		•	
ń	Minnesota	61,530	17	61,547		******	•	
1	New Mexico	13.087	206	13,292		******	•	
	Oregon		24	11,354	*****			*****
	Utah	11,330			*****	*****	•	*****
3	Total P	opulation	in the T	hirty-One	States.	10.10		
-	Whites					19,42	7,259	
_	Free colored				• • • • • • • •	41	9,451	
0								9,846,710
	Slaves				*** *** *			3,200,380
	Federal Representative Population						2	31,766,931
e	Federal Representative ratio							93,420
i.	Total I	Population	includin	g the Terr	ritories.			
e	Whites						1	9,557.271
it	Free colored					*** *** ***		429,710
v	Slaves					*** *** ***		3,204,093
0						7		
-	Total							3,191,074

* All the States marked thus * have an additional member for the fraction.
† One Representative added for California under the Act of Congress approved 30th July, 1852.

Welland Canal Tolls.

We give below the amount of tolls collected at is steadily maintaining its progressive increase of 20 per cent from year to year, notwithstanding the late period at which lake E-ie was freed from ice this spring. This ratio has been maintained on the Erie canal for the last twenty years, and forms the basis on which the future increase of revenue on

end it driedly commy	~ ~~	*****	******	
1851.			1852.	
March 31st £14	19	7	April commencing	
April3356	13	10	the 20th £139 12	
May 3460	6	5	May 475 11	
June3765	2	1	June 5461 10	
July4689	6	7	July 5486 10	
014000	0	0	017114 4	۰

\$57,145 19 Amount over last year, on 31st July...\$11,311 15 St. Catherines Journal

Pennsylvania.

The president of the Pennsylvania railroad company has lately received very favorable intelligence from Mr. Miller, who is now in London on business connected with the proposed loan of three millions of dollars, The co-operation of the eminent house of Messrs. Overend, Gurney and Co., the largest bankers of London, whose transactions amount to more than one hundred millions of pounds sterling per annum, has been secured.

Hanover Branch Railroad .- We understand that this road continues to do a good business with every prospect of a rapid increase as the season for active operations advances. The passenger travel is also good, and as the rural beauties of the country around Hanover become known, many of our citizens will take the opportunity which is now afforded of visiting it.

Darien Ship Canal.

We learn from the Panama Star that Dr. Edward Cullen has received permission from the government of New Grenada, after obtaining the consent of the Panama railroad company, to open a ship canal across the Isthmus of Darien, between the Gulf of San Miguel on the Pacific, and the Bay of Caledonia on the Atlantic, or any other point on the Atlantic between Punta de Mosquitos and the west mouth of the Atrato for 99 years.

The date of privilege is the 1st June, 1852, given at Bogota-and the canal is to be completed within ten years, with a prorogation of four years longer, if required, should one third of the work be then finished. The company receives with the grant, 100,000 fanegadas of land to be selected in any part of the Republic. The harbors, both on the Pacific and Atlantic, are to remain free and neutral. The New Granadian government is to receive 3 per cent of the profits for 80 years, and 5 per cent for the remaining 19 years. The company are to make a deposit of £24,000 guarantee, within 12 months of the date of the grant. The names of the arties receiving this grant are Dr. Edward Cullen, Sir Charles Fox, John Henderson, and Thomas Brassey, Esqrs., names sufficiently well known to secure the speedy completion of the work. Fox and Henderson, it may be remembered, were the builders of the great Crystal Palace; and Brassey is associated with Peto and others, in the most gigantic enterprises in all parts of the world, and was the contractor for the Great North Western railroad in England.

By the eighth clause of the Bulwer and Clayton treaty, it appears that both the governments of Gt. Britain and the United States stipulate to extend their joint protection to any company undertaking the construction of this canal; and we learn that it is the intention of the present company in London to carry out the work as an united British and

American enterprise.

This route will lead from Port Escoces in the Bay of Caledonia, about 120 miles east of Limon Bay to Fuerte del Principe, the site of an old settlement of the Spaniards, abandoned in 1790, distance about 22 miles S. W. This tract of country is level and of low elevation, but quite free of swamp, the only hill in the intermediate space between the Atlantic coast and Principe is a low ridge behind Port Escoces and Caledonia Bay, but which is intersected by valleys. Dr. Cullen does not be-lieve that there is any where in this tract an elevation of 100 feet. Through this space a canal must be cut, to unite with the river Savana at Fuerte del Principe, or a little below it. At this point on the river, there is a depth of two, and often of three fathoms of water, and the tide rises there six to eight feet. Fuerte del Principe is 18 miles above the mouth of the Savana, and is 14 miles due north of the mouth. The largest vessels can ascend the river nearly to Principe, there being a depth of seven fathoms water at its mouth, and a rise of tide of 21 feet, and the course up the Principe being free from sinuosities, elbows, snags, playas, or other obstructions, its banks are never inundated, and no swamp exists any where in the neighborhood.

The Savana river opens into the Tuyra or Santa

Maria del Darien, just as the latter discharges it-self into the deep Gulf of San Miguel by two mouths, one of which has 18 and the other 20 fath-oms of water. Thus the distance from sea to sea, by this canal route, would be about 40 miles. In a direct line, from Caledonia Bay to the west point of the mouth of the Savana, the distance is only

311 miles.

The chief recommendation of this route is the excellence of its harbors, in which it has a decided superiority over any hitherto proposed. In many places in Caledonia Bay and Port Escoses there are from six to nine fathoms of water so close to the margin of the sea, that ships may discharge with as much facility as at a whari. They are perfectly secure harbors, and would hold large fleets. The coast is clean and safe. The canal may open anywhere in these harbors, from Punta San Ful-gencia in 8° 55′ N., and 77° 47′ W., to Punta Es-coces in 8° 50′ N., and 77° 41′ W. Dr. Cullen places Fuerte del Principe in 8° 35′ N., and 77° 56′ W.

It is a singular fact, that these harbors were se-lected by Vasco Nunez for his settlement of Alga, by the Buccaneers for their landing place on the occasions in which they crossed to the Pacific by way of the Chuquanagua, and by the Scotch colony of 1698, so inhumanly crushed by William III, and by the Spanish government in 1785, for the garison of San Fernando de Carolina, abandoned in 1790.

The Gulf of San Miguel would hold the shipping of the world, has great depth of water, and its navigation is perfectly safe. Its mouth, bounded by Cape San Lorenzo to N. and Cape Garachine to S., opens into the Pacific immediately south of the east point of the mouth of the Bay of Panama, Cape San Lorenzo being that point. Near the latter is the shoal called El Buey, but which is easily avoided. Cape San Lorenzo is only 80 miles S.E. of Panama, and can be reached, with a fair wind,

in one or two days.

Dr. C. had originally proposed the deepening of the the Atlantic, but subsequently considered it better to cut directly into the river, at such a point that the largest ships can reach, and using the upper part of the river as a feeder. He confidently expects that the canal can be cut entirely without locks, and that, by cutting deep enough, the Paci-

Pacific Railroad.—The party of engineers, having in charge the location of the western half of the Pacific railroad, have been for some weeks occupied in running various experimental lines through this country. One line has been traced descending the Missouri, from Kansas to the mouth of Big Blue; thence up Big Blue, ascending Heart Grove creek; over the dividing ridge, between Big and Little Blue, and crossing the latter stream, at the Rock Ford, up Moose creek, to the dividing ridge between Little Blue and Big creek. This line here connects with that surveyed two years ago, by Messrs. Kirkwood and O'Sullivan.

Another line, commences at the summit of the Missouri Bluffs, above Wayne city—passes thro' Independence—descends the Lick Fork, (east of town) to Little Blue, and is designed to be continued onward to Warrensburg, in Johnson county, at which point this line also blends itself with the ex-

isting one above mentioned.

A third will then be run out, pursuing a straight course from Georgetown, in Pettus county, cross-

ing the waters of Blackwater, to Independence.

The Engineer-in-chief, Thos. L. O'Sullivan, arrived on Saturday the 24th July, from St. Louis. and has gone to the south-west corner of the State, in McDonough county, for the purpose of making a reconnoisance. From thence, through Springfield and the mouth of Pinee Fork of Gasconade, to St.

At present, then, the following system of surveys are being executed simultaneously, by the compa-

ny at St. Louis:

1st. From St. Louis, by way of the mouth of Pinee, through Springfield, to the south-east corner of the State. This is to have the name proper of the "Pacific railroad."

2d. A branch, leaving the main stream at the western edge of St. Louis county, and passing south to the Brown Mountain in St. Francois county.

3d. A branch from the same point, pursuing the bank of the Missouri river, through Jefferson city, thence by Georgetown to the Missouri river in ackson county.

These surveys are made in preparation for the assembling of the Legislature, designated by the Governor to be on the 30th of August next.—Inde-

pendence (Mo.) Western Empire.

A letter of Gen. T. L. Price, dated California, sides, all the citizens of California and the neighborhood have manifested a liberal spirit toward the appoint a day for the meeting of a railroad convenencouragement of the road. A number of individ-tion on the project, at Charlotte.

uals have taken considerable amounts of stock; and you will recollect that the people of the county voted for the county to subscribe fifty thousand dollars stock. This proposition was carried by a very large majority.

New York.

Chemung Railroad.-At an election held by the stockholders of the Chemung railroad company, at the village of Elmira on the 5th inst., for the choice of thirteen directors to serve for the ensuing year, the following gentlemen were duly elected, viz: Robert Bayard, Isaac Otis, J. S. T. Stranahan, J. W. Baker, New York; Simeon Benjamin, John Arnot, A. S. Diven, William Maxwell, Elmira; Charles Cook, Havana; C. A. Cook, N. B. Kidder, W. N. Clark, W. W. Watson, Geneva. The directors met on the same day and made choice of river Savana from Principe to Canasas, a point the following officers viz: Simeon Benjamin, Esq. several miles farther north, and cutting thence to president: Isaac Otis, Esq., treasurer; Henry H. president; Isaac Otis, Esq., treasurer; Henry H. Casey, Esq., secretary.

This is a strong board and includes the names of some of our leading citizens. This road, which unites the Erie road at Elmira with the Canandaific tide may be let to flow into the Atlantic, and thus ships be enabled to pass from sea to sea, with road for a long term at 8 per cent per annum on the ebb and flow of the Pacific.

thus ships be enabled to pass from sea to sea, with road for a long term at 8 per cent per annum on the ebb and flow of the Pacific. gua and Jefferson at Jefferson, is leased to the Erie the cost. It forms a very important link in the chain of roads between New York and Buffalo, and by its position will always command a good traffic. At present it pays the Erie company a profit on

their lease.

Albany and Scheneciady Railroad.-The number of passengers carried by the Albany and Schenectady railroad for the first fourteen days in August

Increase..... 2,067 Rochester and Syracuse Railroad .- The following

statement exhibits the earnings of this road for six months up to 1st August:

1852, F	eb. 1	, surplus profits	\$144,758	73
Receipt	s in l	February	50,852	
44	66	March	53,233	16
- 66	33	April	72,376	01
	33	May	98 291	39
68	11	June	116,770	59
66	86	July	109,157	88
Interest	divi	dend on Buffalo and State	- POST	
line 1	ailre	oad stock	5.549	90
Mail se	rvic	es for six months	10,360	00
		manager and galleria.		_

п			
	Total	\$661,289	85
	Expenses in February	\$38,504	46
	" " March	42 622	
	" " April	31.533	76
à	" " May	29,225	76
	" " June	39,559	33
	" " July	35,482	22
F	Balance for disbursements	6.988	95
٠	Int. on scrip stock and bonds	. 44,033	56
	Dividend at 5 per cent on capital stock		
	\$4,066,000	203,300	00
,	Balance to new account	190,039	26

\$661,289 85

The surplus profits after declaring a dividend of 5 per cent on the earnings of six months has increased \$50,000.

North Carolina.

Charlotte and Jonesboro' Railroad .- A meeting of the citizens of Mecklenburgh county, North Carolina, was held on the 5th July, at Charlotte C. Manitean county, August 10th, in reference to the H., for the purpose of considering the subject of a same enterprise says: "We are progressing fine- railroad between Charlotte and Jonesboro, Tenn. ly, no difficulty in procuring the right of way-be- A committee was appointed to enter into correspondence with citizens on the route and its vicinity, and

Ohio and Mississippi Railroad.

The Common Council of the city of St. Louis, have passed resolutions to accept stock in the above Co., on receiving an assurance that the western division of the road shall be completed before the eastern. The following are the resolutions of the council, as amended and passed on the 13th of July, 1851, together with the note of Wm. Truesdail, the agent of the contractors to the committee of the board of directors, and the subsequent ratification by Messrs. H. C. Seymour and Co. The hearty co-operation of the city of St. Louis is now secured, and the most vigorous measures will be adopted for the immediate prosecution and completion of the work.

Resolved, by the city council of the city of St. Louis, That the city will accept and ratify as a stockholder, the act passed by the legislature of the state of Illinois, approved June 22d, 1852, entitled "An act to incorporate the Ohio and Mississippi railroad company and for other purposes, and the joint committee of the council having charge of the city's interest therein, are instructed to enter upon the books of the company, an acknowledge-ment in conformity herewith, whenever the contract made with H. C. Seymour and Co., for the construction of said road, shall have been modified as follows:

1st. The said road from Illinoistown to Vincennes shall be finished, completed and turned over to the stockholders within three years from the 1st of

July last past.

2d. The city to issue her bonds to the contractors only upon the regular calls of the board of directors upon all stockholders, and in no case to be dealt with differently than the other stockholders.

Sr. Louis, July 5, 1852.

Messrs. J. H. Lucas and Chas. P. Chouteau, Com. of B. D. Ohio and Miss. R. R. Co.

Gents: In answer to your note of this date, set-

ting forth that ours to you of the 2d instant, might be subject to misconstruction, we now in lieu of former assurance, do agree, most explicitly, to finish the western division of the Ohio and Mississippi railroad, from Illinoistown to the State line at Vincennes, within three years and have the same in successful operation before the eastern division, from Cincinnati to Vincennes, shall be completed; provided, however, the means are furnished as are re-

With much respect, your ob't servant, ba Wm. Truesall, Agent. H. C. Seymour & Co. SANGER, CAMP & Co.

St. Louis, August 2, 1852.

To Messrs. Lucas and Chouteau, Committee, &c:
Gentlemen: Having been advised during our absence that an agreement on our part so to modi-fy the contract as to complete the Illinois division of the Ohio and Miss. railroad within a period of 3 years would harmonise the conflicting views on this subject, and secure the hearty co-operation of the Common Council of St. Louis in the prosecution of the work, we authorised our agents Wm. Truesdail, and Sanger, Camp, and Co., to signify our willingness to accept such modification.

Their letter of July 5, 1852, we fully and cordially indorse; and furthermore, we are now prepared to carry out the intimation of our agents, and will hold ourselves in readiness to execute the modification as above, any time on or before the 7th inst., provided, that in the meantime the council adopt the inclosed report and resolutions of the joint comprovided, the inclosed report and resources, the inclosed report and resources.

Wery respectfully, yours, &c.,
H. C. SEYMOUR & Co.

Vermont.

Vermont Valley Railroad .- The following gentlemen comprise the board of directors: Hugh H. Henry, of Chester, president; G. L. Schuyler, A. Hamilton, Jr., R. B. Mason, G. R. Bowdoin, New York; Charles Chapin Brattleboro'; P. R. Chandler, Putney.

Michigan Central and Canada Railroad.

The Michigan Central railroad, is one of the very best roads in this country. It is laid with heavy T rail, and the road in all its appointments is laid and equipped in the most substantial and perfect manner.-The distance from Chicago to Detroit is 278 miles, and it is run by the express train in a little more than ten hours. The time is soon to be reduced to nine hours.

In connection with this road, the great Western road through Canada is now being pushed with great energy and will be completed by a year from next month.-The distance from Detroit to Buffalo or Niagara, is 214 miles. Of this distance 107 miles is perfectly straight, with a maximum grade of only 4 feet to the mile. The time on this 107 miles is to be two hours-fifty-three and a half miles per hour. This will be going through the world fast enough to satisfy the progressive spirit of the age.

The number of passengers during the month of July last on the Michigan Central road, the most unfavorable month of the summer and fall, was, Emigrant ... 2,965

Baltimore and Ohio Railroad.

New Depot at Washington .- The new railroad depot at Washington, built by the Baltimore and Ohio railroad company, is now nearly completed. The dimensions of the station house, situated at the corner of New Jersey avenue and C street, are 106 feet front, by 68 deep. It presents a beautiful front, built of Connecticut brown stone, and surmounted with a fine quadrangular tower, 70 feet high and 18 feet square, whose sides exhibit the faces of a large well-regulated time keeper. The main car house runs diagonally through the square. It is 60 feet wide and 330 feet long. A long glass window extends through the centre of a grooved iron roof, supported by granite pillars, and girt with massive iron tie beams, remarkable for simplicity and strength. This roof was designed by Mr. Bollman, road master to the Baltimere and Ohio railroad company. Ample platforms on either side render the entrance and exit from the trains easy and convenient. In the night the building is hand-somely lighted with gas. The main entrance to the passenger trains is through a beautiful hall, 45 by 68 feet in area, on either side of which are arranged the ticket and freight offices, ladies' and gentlemen's saloons. To the latter are attached elegantly furnished dressing rooms, supplied with mirrors, solas, and numerous little comforts, seldom, if ever, found at railway stations. Messrs. Niernsee & Neilson, of Baltimore, furnished the designs for the building, which has been erected under the superintendence of Mr. John H. Mc-Machen.-Balt. American.

Influence of Railroads.

The following list of improvements now going on at Wheeling are attributed to the expected completion of the Baltimore and Ohio railroad to that point. The Wheeling Gazette says:

We will name but a tew of the buildings of a public character going up, and the aggregate ex-penditure they will involve, at a rough guess, and see what an immensity of money they sum up.— Four iron works \$400,000. Two hotels \$160,000 Four iron works \$400,000. Two notes \$160,000. (one completed.) Washington Hall \$35,000.—Forsythe & Co's Warehouse, the largest in the Union, \$30,000. Four other warehouses \$25,000, One market house \$40,000. Ten stores \$40,000. B. and O. railroad depot, \$100,000. Bridge \$60,000. One pork house and Chandler's shop \$20,000.—in all, \$910,000. This is the money now being expended here in a few varieties of business, and building. What amount may be fairly estimated as the expenditure in residences, and smaller establishments, we have not now time to inquire into, dependant on the increase of population which these works must produce?

Illinois.

Chicago and Alton Railroad .- We learn that a corps of engineers have been organized for the survey of that portion of the above road lying between Bloomington and Chicago. Mr. P. A. Badeau, who has been connected with the road for sometime past, will have charge of the survey, and has proceeded to Blcomington, where the work will be immediately commenced. We commend him to the people along the line.

That portion of the road between this city and Springfield is progressing with great rapidity, and it is confidently anticipated that it will be in order for the cars to run to Springfield in the course of two weeks from this time—there being about eleven miles of track to lay .- Alton Telegraph.

Chicago and Rock Island Railroad.—Gangs of hands are busy laying down the ties and iron, at both ends of the section of the Rock Island railroad, between this city and Joliet. With a continuance of ordinarily fair weather, the entire section will be completed, and trains running between this city and Joliet, by the middle of next month-say thirtyfive days hence.

The division beyond Joliet is being graded and bridged rapidly, and the iron and ties will be put down some distance before winter sets in.

Mr. Farnham, who has the superintendence and control of the whole enterprise, is a man of unconstruction of the road, is a guaranty that it will not lag. Early next year we may expect to visit La Salle and Peru on the first train.—Chicago

Pittsburg and Steubenville.

Right of Way through Virginia.—The case stated briefly as we un erstand it, is this: The people of Brooke and Hancock counties, Virginia, petitioned the Virginia legislature last winter, for the right of way for a railroad connection between Pittsburg and Steubenville. The petitions were presented and referred to a committee. The committee reported by resolution "that it is inexpedient to grant the prayer of the petitioners." The report coming up for consideratian in the house of delegates, Dr. Smith moved to amend the resolution reported by the committee by striking out the word "inexpedient." And, after a discussion of the question for several days, the amendment of Dr. S.

The legislature will re-assemble next November, and this question will be then acted upon; and the right of way, we are confidently assured, will be then granted .- Pittsburg Com. Journal.

Sodus Bay and Southern Railroad.

The Sodus Point and Southern railroad, will soon be put under contract. This must be gratifying intelligence to its numerous friends. are those who have labored long and well to secure this road, and all their labors are about being crowned with success, this certainly must be pleas ant. Prominent among the early advocates, nay the originator of the road, is Dr. Cook. Those who will be benefitted by the road, and it will be advantageous to the whole country, owe to his inde-fatigable perseverance and untiring energy what-ever of benefit may accrue to them, Such men are ever of benefit may accrue to them, Such men are public benefactors, and are held in happy remem brance by a grateful people. - Wayne County Whig.

Immigration During June.

During the month of June, there have arrived at New York from foreign ports 508 vessels, bringing 53,206 passengers. The aggregate measurement of these vessels was 204,426 tons. The following table shows the number of passengers who have arrived in this city from foreign countries during the first six months of three years :

	1850.	1851.	1852.
January	13.977	17.240	12,709
February		10,020	6.570
March		18,103	23,195
April	15,919	30,531	29.147
May		36,680	40,777
June		38,688	53,206
Total	99 900	151 963	169 599

Ohio

Cincinnati, Wilmington and Zanesville Railroad -The Lancaster Gazette says, the embankment across the Hocking valley west of the city is proacross the Hocking valley west of the city is progressing rapidly, as is the grading and masonry on other portions of the line, and its completion is regarded as certain, next spring. The Gazette seems to think the Cincinnati papers have neglected to take proper notice of this road, and hopes that the "city press will at any rate notice the arrival and departure of the first train." We will do so with pleasure, and in the meantime, notice whatever we can get from the papers along the line and other-wise, as we have done heretofore, to keep our read-ers advised of the condition and progress of that important line of road .- Cinn. Gazette

Cleveland and Lake Shore Railroad .- This company held their annual meeting on the 10th inst., and elected Alfred Kelly, Wm. Case, Chas. Hickox, T. M. Kelly, Stillman Witt, D. R. Paige and W. D. Beattie, directors. Mr. Kelley was subsequently elected President, and Mr. Case Vice President. The stock was increased 25 per cent, and the option given the stockholders who had paid up, to take the increase at par. The stock now commands a premium of 15 per cent. The road is finished to within five miles of the Pennsylvania line.

Railway from Hamilton to Rushville .- The Connersyille American states that Messrs, L'Hommedieu, Wood and others have recently visited that region, and have made arrangements with the Junction company, for constructing a railway from Hamilton, by way of College Corner, Connersville, etc., to Rushville. The Cincinnati company to construct the road from Hamilton to the State line as soon as the Junction company shall construct one from the State line to Rushville. The people in the several counties in Indiana are alive to the subject, and are engaged in measures to push forward the work. That is a fine country sufficiently rich and productive to satisfy anybody, and furnishing large supplies to this city. They want a railway, must have one, and they are resolved to raise the funds for it.

The Belpre and Cincinnati Railway.- The Hillsborough Co., have done a good business in Cinn. the past week. They have raised principally among our citizens, \$300,000 of stock, which will enable them to pay off all its liabilities which have matured, and leave their line finished from Loveland to Hillsborough unembarrassed, with a surplus running income sufficient to pay off all their remaining debts as they mature. The recent surveys for extending their line from Hillsborough to the coal regions and on to Belpre, has attracted great attention in Cinncinnati, and such is the desire to reduce the price of fuel here, and such the confidence that this road will effect a great reduction, that the company may look for still more aid. The stock in the company, when opened to the coal field, must be profitable, and when the line is opened to connect the St. Louis and Cincinnati road with the Baltimore and Ohio road at Parkers. burg, this will rank among the best paying railway stocks in the Union. It is now certain that the connection with the Baltimore and Ohio road will be made at Parkersburg.

The directors, in consequence, have recalled the \$225,000 bonds they have offered for sale, and they will be all cancelled.

Canada.

Prescott and Lake Huron Railroad.-The Perth Standard says that the town Council of Perth have recommended that the Municipality take stock to the amount of £10,000, in the Prescott and Georg- prietors of New York are supplied from Cincinian Bay railroad, via Smith's Falls and Perth.

New York.

Genesee Valley Railroad .- The friends of this road, says the Rochester Democrat, will be gratified to learn that the difficulty in regard to the directorship of this enterprize has at last been settled, and that there is now a prospect of its speedy prosecution. Operations will be commenced under very favorable circumstances. Including the city subscription of \$300,000, the sum of \$600,000 has been subscribed by responsible parties. The directors have now all been chosen, and consist of the following gentlemen, the four last having been elected by the common Council.

James S. Wadsworth, Allen Ayrault, Geneseo; Daniel H. Fitzhugh, Groveland; John Vernam, John R. Murray, Mt. Morris; William T. Cuyler, Leicester; Azariah Boody, Elijah F. Smith, Amon Bronson, Levi A. Ward, Joshua Conkey, Everard Peek, and Isaac Hills, of Rochester.

There is a very general anxiety among the people of the Valley for the speedy prosecution of the work. They prefer to maintain their long business connections with Rochester, rather than form new ones with other cities, as they will soon be forced to do without a railroad in this direction. The road from Hornellsville to Attica is just on the point of completion, and is already used to a considerable extent. The work upon two other lines is rapidly advancing, and in all probability will be completed before the Genesee Valley Railroad. The latter will be the favorite throughout the Valley, and will command the great bulk of the business. The trade of Alleghany county is now almost entirely turned into a new channel. The completion of the Erie railroad is working greater changes in that region than is generally supposed. Instead of taking a week to come to this city and return by teams or by the canal, two days suffice to send stock, butter, cheese, and other products to New York and get the returns in cash. The Valley railroad will reclaim a great share of this business for Rochester, and without it our progress would be seriously checked for a long time to come.

Loke Ontario and New York Railroad .- The Cayuga New Era states the contracts for the grading and masonry of this road have been made, and with a certainty that the work will be immediately commenced.

Erie Railroad .- This company have we understand leased the Paterson and Ramapo roads, on very fair terms: and it is their intention at once to widen the tracks to six feet, so that very soon New York will be put into communication with the lakes and the west, by a direct railroad line without any break of guage or other chasm, except crossing the Hudson at Jersey city. 'The ferries between New York and Jersey city have recently been greatly improved, and the new ferry houses, with their spacious rooms, offices, etc., resemble a regular depot more than the ordinary accommodation for ferry passengers.

New York and Buffalo Railroad .- The completion of the magnificent bridge at Portage, over the Genessee river, has opened direct communication between New York and Buffalo. The twentieth instant, was the day appointed for the running over of regular trains.

The Horse Trade of the West.

Horses are carried by railroad from Cincinnati to New York or Boston in five days, and for the sum of thirteen dollars each. The omnibus pronati.

Massachusetts Railroad Statistics.

Eastern Railroad .- Incorporated in 1836. Opened throughout November 9, 1840. Length, 74 miles,* (including branches. Length of double track, 16 miles. Cost, Jan. 1, 1852, \$3,614,275.*

The following table exhibits the operations of the road, during the last ten years; its cost, and the market price of the stock, at the beginning of each year. The item of "Interest" is not included in the expenses :- Boston Courier.

which is the Mass	1851	1850	1840	1948	1847	1846	1845	1844	1843	1842	Year.	
* Including Eastern KK I which is leased to, and oper the Massachusetts company	3,120,400	3 119 300	3 095 400	2 937 200	2815 100	2 471 600	2.406,400	2,388,600		#	Cost.	
n KK in N. H. id operated by \$ mpany.	10	101 "	104 "	104 "	108 "	104 "	112 "	1041 "	89	\$100 per sh.	stock.	Value of.
\$4,070,516	502,054	539,076	517,929	479,158	424,841	371,339	350,150	337,238	200.002	\$269,169	ceipts.	Gross re-
4,464,292	195,399	185,218	183,980	182,216	135,083	132,556	116,840	109,319	104,041	\$115,010	expenses.	Running
2,606,224											come.	
Av. 7 11-20 per cent.	02	000		00	00	0			2	o ber cent	Dividends.	7

Telegraph Business.

The Magnetic Telegraph company, owning the line extending from Washington to New York, during the year ending on the 1st of last July, transmitted over their wires 253,857 messages, the tolls received on which amounted to \$103,232.37. During the six years and a half the line has been in operation its receipts have amounted to \$385,-641.42. The rapid increase of the business of the line is shown by the fact that the receipts for the year ending July, 1852, were but \$67,737.12. The last annual report of the company gives some particulars of interest.

The capital of the company is \$370,000. It has six wires from Washington to Philadelphia, and seven from Philadelphia to New York. It has offices at Washington, Baltimore, Havre-de-Grace, Port Deposit, Wilmington, Philadelphia, Trenton, New Hope, Princeton, New Brunswick, Newark, Jersey city and New York, and employs in its service, including messengers, outside laborers en-gaged in keeping the line in order, clerks, opera-tors, etc., about one hundred and twenty-five per-sons. The distance from Washington to New York, by the line of the wires, is about two hundred and seventy-five miles; requiring between nineteen hundred and two thousand miles of wire. The cost for chemicals is considerable, and the amount of stationary quite immense—the single item of envelopes for the year reaching in number nearly one quarter of a million. This is the pioneer line of quarter of a million. This is the pioneer line of magnetic telegraph in the world, and very large sums have been expended in various experiments, the object all the time being to make it as perfect as possible. It is now, perhaps, all things considered for its length, the best appointed and most reliable in the country, and probably the most productive in the world.

A DATE OF LAKE AND A CHARLES OF A 19-

Canada.

Ocean Steamers. We have much pleasure in be ing able to state, that the government have succeeded in concluding an arrangement by which a line of steamers will run fortnightly from Montreal and Quebec to Liverpool, commencing next spring, and from Portland to Liverpool monthly, during the winter season. The Atlantic and St. Lawrence R. R. Co., and the Portland railway company, as also the city of Portland, contribute to the expense of maintaining the winter line of boats, and as the R. R. from this city to Portland will be completed through in July next, Montreal will thus not only be put in communication with England by the shortest route, but have the additional advantage of passing her winter imports and travel over a line one half of which belongs to the people of Canada. It is impossible to estimate the results of opening up a steam communication via the St. Lawrence. Through the Strait of Belle Isle, the distance to Quebec is some 400 miles shorter than to Boston, and with the Straits properly lighted, the route may be made with the most perfect safety.

We believe that by this line our mails may be made to reach us earlier than they now do via Boston and New York, and we are satisfied that if the proper measures are only taken to point out the advanges of this route, by establishing agencies in that principal European ports—If this we say be only done, as it ought to be done, a large share of the vast stream of emigration which now sets into N. York can be directed, and will be directed to the St. Lawrence. Already the German emigrant bound west is finding out the advantages of coming this way, and with cheap steam navigation, the b the European emigration will take this route in preference to any other. The proposed steamers will be 1500 tons, built of iron, and propelled by screw. The price of a cabin passage will be £20, second cabin £12, and steerage passage £6—this including meals and all that is necessary for the voyage.-Pilot.

New Hampshire.

An Important Railroad Movement .- We understand that the stockholders of the New Hampshire Central railroad, which runs from Manchester to Bradford, being satisfied of their inability to proceed any further with the undertaking, have given up ir stock, and relinquished all interest in said road to Messrs, Clark & Co., the well-known brokers.— These gentlemen, we further understand, are to complete the road from Bradford, the present northwestern terminus to Claremont, N. H: From thence it is intended to intersect the Rutland and Burlington road at or near Bartonville, Vt. A line of road is also to be built from Whitehall to Sackett's Harbor, on Lake Ontario, and thus over all these roads furnish a new and important line of communication between the Lakes and Boston .-The contract for the surrender of the N. H. Central road has already been completed. From the reputation and extensive business connections of the firm, into whose hands this road has passed, we infer that operations will be soon commenced to for-ward this undertaking.—Brattleboro' Eagle.

Mohawk Valley Railroad.

This company, incorporated last year under the general law to construct a railroad on the south side of the Mohawk river, between Schenectady and Utica, has lately been reorganized to a considerable extent, and the following gentlemen were yesterday elected directors to fill vacancies:—

Erastus Corning, John Townsend, Marcus T. Reynolds, Thomas W. Olcott, and John V. L. Pruyn of this city, and Alonzo C. Paige and Chauncey Vibbard of Schenectady. John V. L. Pruyn was elected president of the board, in place of Azarish C. Flagg regioned. riah C. Flagg resigned.

Although no plan of operations has yet been agreed upon, we learn that it is contemplated, if it should on examination be found expedient, by the parties interested, so to do, to lay a third track on or parallel with portions of the Utica and Schenectady railroad, which connected with a track or racks constructed by the Mohawk Valley company, running through the principal points on the south side of the river will amply serve all the purposes in contemplation when the latter company was incorporated.

Drainage of Great Rivers.

DW SETERD B.

Lieut. Maury, in a recent letter to the Mercantile Library Association of Charleston, regarding his favorite project of steam communication with the river Amazon, gives a table of some interest. It shows the amount of drainage effected by-the great water courses of the globe, as follows:

Square Miles. Extent of back country drained by the navigable rivers of Europe that empty in-vigable rivers of Europe that empty into the Mediterranean.... Extent of back country drained by the navigable rivers of Asia that empty into vigable rivers of Asia that empty into into the Gulf of Mexico and Caribbean
 Other Brazilian rivers
 443,000

 La Plata
 886,400

Parkersburgh Railroad.

The annual meeting of the Parkersburgh and Tygart's Valley railway company took place at Parkersburgh, on the 2d inst. Mr. Cook, the President, resigned, to make way for the election of Mr. Swann, the President of the Baltimore and Ohio road, because he knew him to be more capable than himself, particularly in managing the finances of the company. Mr. Swann was unanimously elected. He delivered an appropriate address, in which he declared that the road would be immediately put under contract, and pursued with all speed to completion.

It is designed to finish the road to Parkersburgh early in the spring of 1855, by which a continuous railway will be opened from Baltimore to Cincinnati, 518 miles in length.

The annexed report of the Parkersburgh company, speaking of its advantages, says:

"To illustrate the advantages to Baltimore of the Northwestern Virginia road, let the line of which it forms a part be compared with that by Wheeling. The railway distances from Three Fork to Cincinnati, are: via Wheeling, 341 miles; via Parkersburgh, 278 miles—showing a difference in favor of the Parkersburgh route of 68 miles, and if the river is adopted, as above, of 91 miles of distance, and from 8 to 12 hours of time.

"It is unnecessary to enlarge upon the advan-tages to be derived by the country through which the road will pass. Whatever benefits railways the road will pass. Whatever benefits railways ordinarily conter, will be enhanced in proportion to the advantages the route has over its rivals. By its becoming the principal thoroughfare between the East and West, the greatest possible benefits will be secured to the adjoining territory, and the development of its resources of whatever character, will be speedy and certain."

Railroad to Westfield,—The Northampton Gazette says:-"The committee who have charge of the books of subscription to the stock of the road from Northampton to Westfield, have obtained satisfactory information in regard to operating the road, should it be constructed, opened the books for subscription to the stock on Tuesday morning. Samuel Williston, of Easthampton headed the list with the generous subscription of \$25,000, and he was followed by John Clarke of Northampton, and H. G. Knight of Easthampton, with a subscription of \$5000 each. Fifty thousand dollars is the least sum that Northampton ought to think of raising for the road. The work will cost from \$160,000 to \$115,000 and it can hardly fail to be a fair stock. along the lines of the road on all lands to which

Michigan.

Michigan Central Railroad.—This company have contracted with the directors of the Military Tract railroad company, for the construction of the entire line from Galesburg to the junction of the Aurora extension with the Illinois Central—the whole to be completed by the 1st of October, 1853. The line from Quincy to Galesburg is already in a fine stage of progress, so that by October 1853, Chicago will be put in direct communication with the Mississippi at Quincy, as well as at Rock Island and Galena. - Chicago Journal.

Ohio.

Toledo, Norwalk and Cleveland Railroad .- Mr. C. L. Boalt, President of the T. N. and C. railroad company, returned home on Friday last, from New-York city, where he has been for the last few weeks, attending to the interests of the road. He has been completely successful, having, as we understan perfected arrangements with the Southern Michigan, and Cleveland, Columbus and Cincinnati, railroad companies, and the companies east of Cleveland, which it is said, will prove highly advantageous to our road, and indeed to all concerned. -Huron Reflecter.

Wisconsin.

The Detroit Free Press mentions, that the citizens of Milwaukee are anxious for railroad communication between that city and Chicago, and are moving in the matter.

Milwaukee and Mississippi Railroad .- The following gentlemen have been elected directors for the ensuing year: John H. Tweedy, Edward D. Holton, George H. Walker, Erastus B. Wolcott, William A. Barstow, Sheldon C. Hall, Joseph Goodrich, Alexander Mitchell, Anson Eldred, Eliphalet Cramer, James Kneeland, Adam E. Ray, Joshua Cobb, David L. Mills and John Catlin .-The following are the officers of the company:-John Catlin, President, Edward H. Broadhead, Chief Engineer, Wm. Taintor, Secretary, and Walter P. Flanders, Treasurer.

Mineral Point Railroad .- At the last accounts from Mineral Point, there had been subscribed at Mineral Point to the capital stock of the above railroad, the amount of \$76,000.

Maine.

Penobscot and Kennebec Railroad .- At an adourned meeting of the stockholders of the Penobscot and Kennebec railroad Co., on the 16th inst., the vacancies in the board of directors were filled. The following is the list of directors: John M. Wood, Phineas Barnes, John A. Poor, Henry B. McCobb, and Allen Haines, of Portland; Geo. W. Stanley, of Augusta; and Geo. W. Chamberlain, of Carmel.

We are informed that the most efficient measures have been adopted to put the work in progress.

The board was organized by the appointment of John A. Poor to the office of president; Wooobury Storer, treasurer; and John M. Adams, clerk.

Connecticut.

Another Loan Negotiated .- The \$500,000 six per cent bonds of the city of Hartford, Conn., loaned by that city on the authority of the legislature to the Hartford, Providence and Fishkill railroad Co. have been taken at 105. These bonhs are redeemable in 1877, with interest payable semi-annually in New York.

Illinois.

Illinois Central Railroad and Branches .- The pre-emption bill introduced by Mr. Ficklin, in the early part of the present session, having passed both houses ot congress was on Monday approved by the president, and has now become a law. In con-sequence of this law sales have been suspended raph.-Nat. Intelligencer.

American Railroad Journal

Saturday, August 28, 1852.

Railroad Investments.

In a series of articles recently published in our paper, we endeavored to show, and, as we believe, have done, so that we are not building railroads in advance of the wants of the country. We think we also gave a satisfactory explanation of the reason why most of our roads seek to borrow a portion of the amount necessary for their construction. The fact that we are not building in advance of the wants of our people implies that our projects are legitimate and proper, and consequently must pay. But as this point was only incidentally touched upon in the articles referred to, we propose to elucidate it still further.

We have in progress in this country from 12,000 to 15,000 miles of railroad. During the next three years we shall add at least 10,000 to the extent of line already in operation, say 12,800 miles.

The actual cost of the roads in progress will not exceed \$20,000 per mile. The yearly call for railroads for new works, will equal about \$60,000,000 per annum.

As a general rule, our railroad companies find no difficulty in furnishing whatever is required for construction, with the exception of those articles which have to be purchased abroad, such as the iron and equipment. The means applicable to the grading, preparation of the wooden superstructure, etc., etc., of a southern or western road, cannot be converted directly into iron. Nothing but money will do here. Those building railroads have property in abundance, and many of them have money, but opportunities for the profitable use of this money are so frequent, that those possessing it, prefer to borrow for a project in which they may be interested, to putting their available cash capital into it. If possible, it is for the advantage of the country that our domestic capital should be reserved, as means for the further development of our resources.

A liberal estimate for those objects for which our companies seek to borrow, is about \$10,000 per short of this sum.

\$1,500 per mile will pay the interest on the loan, sued upon a good line. and produce a sufficient sinking fund, properly invested, to pay the principal in ten years.

That our roads will certainly earn the largest sum named, is demonstrated by the fact that the aggregate railroad investment in this country, which now amounts to over \$400,000,000, is a profitable one, yielding in dividends a fair return upon the entire cost of our roads.

The railroads of New England and New York have cost on an average \$50,000 per mile. Their average net earnings will equal seven per cent. The above are the most expensive, and taken together, the least profitable roads in the United States. Their cost is much above the average. A great many of the roads are rival lines, and they to escape this universal rule. But that the railroad embrace among their number the most unproductive projects in the United States.

The loads that we have already constructed pay

The money now sought to be borrowed is, as a general rule, for southern and western roads. In those portions of the country there are but a few that have been in operation for any length of time. below we give a table of the gross and net earnings of some of the oldest western roads for the past

40.00 10.00			Net
12 07	Gross		earn- ings
	earnings.		
Madison and Indianap	\$388.078	\$185,080	\$2,378
Michigan Central			
Little Miami		297,457	3 554
Columbus and Xenia		150,055	2,778
*Cleveland and Colum.		230,467	1,810

* For six months only.

The average gross earnings per mile of the above roads were \$599,017, net earnings, \$2,300. With the exception of the Michigan Central, which has a rival line to contend with, their average earnings have increased during the present year more than 25 per cent.

At present the average earnings of the above roads will probably slightly exceed those of new roads just coming into operation; but they do not exceed what the average of such roads will be when they shall have been in operation an equal length of time.

By no possibility, therefore, can we foresee any contingency which can prevent our new works from earning four or five times the amount necessary to pay the interest on their indebtedness. If the ability can be shown, the will to discharge their liabilities will not, we think, be doubted.

We may therefore state, as a general rule, the entire railroad invessment of the United States to be, in the aggregate, a profitable one, yielding a interest, and that the income of our new works will cence of the work will admit, exceed this rate, as they have the advantage of all the experience acquired in railroad construction, and will cost much less, while they have promise of as equally lucrative traffic, as the average of roads in operation.

The lien ordinarily created by a mortgage bond, covers the entire property of the road, and the mortgage gives the bond holders a right to assume mile. The average of loans for new works fall the control and management of the road, in case of failure on the part of the company to meet their li-To pay the interest on this amount, will require abilities. We can, therefore, conceive of no better a net income of \$700 per mile. A net income of or safer investment than that in railroad bonds, is-

> It will be borne in mind that the railroad vastly increases the ability of those interested in it to meet their obligations. The fact, too, that the money borrowed is for a legitimate business transaction, and that it becomes instrumental in increasing the value of the entire property of the community to an extent exceeding many times the amount borrowed, adds vastly to the safety of the security. Business men fully appreciate the importance of the fact, that the success of the borrower adds vastly to the safety of the loan.

In every branch of business some losses must be incurred; even in the most successful. It would be almost impossible for all our railroad projects system of the country is sound, and will bear the closest scrutiny, there cannot be a doubt. It is in the fullest confidence of the truth of this assertion, the reason that the business prospects of most of present the whole system in all its working before and the line is already cleared for 20 miles.

emption attaches, and this information has been them are equally flattering while their cost is only the public. Had we believed otherwise, policy veyed to the land officers by means of the tele- about one half as much as those in operation. would have dictated an entirely different course; one of concealment instead of display. But, like everything that is really strong, the more it is investigated the greater the confidence secured to it.

Railroad to Hudson's Bay.

The Liverpool Chronicle states that an English company have contracted to construct 100 miles of railroad from Quebec towards Hudson's bay, at £10,000 per mile, and that the line is intended to be pushed rapidly forward until it reaches that great Northern sea. The whole distance is 600 miles. For ourselves, says the New York Journal of Commerce, we do not see what there is to support a railroad in that direction, but if the Canadian government or the British government see fit to build it, we certainly can have no objection. On the contrary, we should suggest the expediency of a line of steamers from the northern terminus of the road to the North Pole. It would be delightful in hot weather to run up to North Pole city, and take a glass of ice water fresh from the hands of old Boreas.

Ohio and Mississippi Railroad.

The Aurora, Ia., Standard, says this magnificent work is now progressing finely. It has been located permanently as far as Miller's Mill, on South Hogan. It follows the canal from Cincinnati to North Bend-crosses the Miami about a quarter of a mile above its mouth, passes through William street in Lawrenceburgh, near Henry Walker's residence and through the public square, in Aurora; then up the valleys of South Hogan and Whittaker's Fork to Table Land. The work of grading was commenced at Miller's Mill last Monday, and yesterday quarries were opened near this city. From the way the engineers on this end of the route push the work ahead, we have every reason to benet income on its cost equal to our legal rates of lieve it will be completed as soon as the magnifi-

Florida.

Brunswick and Florida Railroad.-Mr, Ephraim Alexander has contracted, on behalf of himself and Dr. Collins, of Macon, with the Brunswick and Florida railroad company, to construct the road from Brunswick to Thomasville, in the direction of Pensacola; also a branch road from Thomasville to Albany, Ga., and another from Thomasville in the direction of Tallahassee, to the Florida line. The roads are to be finished in about three years, at a cost of somewhat over three millions of

Seats for Railroad Cars.

The Utica Observer notices an improvement for railroad cars, the invention of Mr. A. B. Buel, of Hampden, Oneida county, New York, which promises to add much to the comfort of travelers, especially in the night. By means of a double back. one of which can be elevated to stit the inclination of the occupant the seat can be converted into a comfortable lounging place.

New Orleans and Nashville Railroad.

The Aberdeen, Miss., Democrat says that \$270,-000 worth of stock in the New Orleans and Nashville railroad has been taken in Monroe county,

Canada,

St. Andrews and Quebec Railroad .- A locomotive is already in motion on a part of this road, and well. Those in progress must pay far better, for that we invite attention to, and have endeavored to ten miles are promised to be opened in two months

Air Line Railroad

The New Haven Journal says the road from that city to Middletown, being a portion of the proposed air line road, will be put under contract as soon as the New Haven subscriptions have been renewed. This is deemed necessary, in order to avoid all dispute upon the validity of the subscriptions.

Michigan.

Michigan Southern Railroad .- Messrs. John B. Jarvis, George Bliss, Charles Butler, Elisha B. Litchfield, E. C. Litchfield, Hugh White, John Straker, William L. Marcy, and John S. Barry, were elected directors of the company, at the last meeting of the stockholders. John B. Jarvis was elected President.

Stock and Money Market.

The stock market during the present week contrasts with the previous rise, which was altogether a speculative and illusory one, taking place at a time, when many large operators were out of town and utterly baseless in itself. The depression and reaction in the stocks thus elevated, produced a counter current against the steady rise of the stable stocks, which are appreciating under the operation of a sufficient financial cause. The banks calling in their loans for the purpose of raising the rate of interest, the shipments of specie to Europe and the payment of large sums for duties during the week have contributed to a temporary scarcity of money.

Thursday, 19th August .- The market fluctuated considerably. Large sales were made, but many of the fancy stocks seemed as if parting company with the more solid investments. 1750 shares of Harlem were sold, closing at 73\$, declining \$. L. Island 224. Eric 884. Reading 924. Hudson R. 694. Norwich 564. The Western railroad and other premium stocks on the contrary rose. Madison and Indiana 110. North Indiana 121. N. Y. and New Haven sold at 114. Utica and Schenectady 139. Rochester and Syracuse 122. Roch. and Niagara 109#.

Friday, 20th August-Something like a panic prevailed among the operators in tancy stocks and the most of them fell off heavily. Erie stood 88. Reading 921. Norwich and Wooster 568. Hudson R. 691. Long Island and Harlem advanced slightly. L. I. 224, and Harlem closing at 734. Bonds were firm. Erie convertibles of .'71 and '62 selling at 99. Government stocks were firm and the upward movement of the paying stocks went steadily on. Madison and Ind. 1101. Utica and Schenectady 140. Syr. and Utica 139. Roch. and Syracuse 122.

Saturday, 21st August .- Rather more activity existed to-day after the depression of yesterday, but the tendency was decidedly downward in prices. Large sales were made in Erie which closed at 87\$ Reading went up 1. Hudson River fluctuated considerably, and closed at 691, Harlem 731, Stonington 591. Some slight changes took place in Gov. and State stocks, but in these, as in the solid railroad stocks and railroad bonds, there seems to be a steady tendency upward. N. Y. and N. H. 115, N. Ind. 1201, Roch. and Syra. 122. The steamer Pacific took out \$616,928. The Sub-Treasury showed this evening a balance of over six millions in its vaults.

Monday, 23d August .- The duliness in the fancies prevails with some trifling exceptions, Erie closed at 871, Harlem 73. Reading went up, closing at 931, Nor. and Wor. 56, Stonington 60, an advance. The coal stocks all went up as well as Reading. The investment stocks were steady,

Roch. and Syr. 122, N. Ind. 121, Mich. South. 121, Mad. and Ind. 1091. Large transactions took place in Erie bonds, those of '62 brought 991, '71, 981. Large drains of money for shipment and the payment of duties, have drawn largely on some of the banks, but their wants were soon supplied.

Tuesday, 24th August .- The fall in stocks continueb to be very marked all the fancies have in the decline. The closing prices of the leading stocks were Erie 861. Harlem, a heavy amount was sold closing at 714. Hudson River 694. Norwich and Worcester 541. Reading rose slightly 94. Stonington 59. Government, State and investment stocks generally seem in good demand. New York and New Haven 1141. Michigan Central 112. Northern Indiana 121. Rochester and Niagara Falls 109. There seemed to be some check to day to the hitherto abundant supply of money.

Wednesday, 25th August .- The decline of the week, as a general rule, continues. One cause may be the calling in of loans by the banks, and the increase of the rate on call loans to 6 per cent .-Heavy operations, at a great falling off in Nicaragua Transit Co. have also affected the market. Erie closed at 86%. Harlem 72. Hudson River 691. Reading 941, a rise. Norwich and Worcester 541. Long Island 22 Investment stocks were steady but inactive. Northern Ind. sold at 1203. Michigan Central 112. N. Y. and New Haven 1141. Rochester and Syracuse 122. The steamer took out \$632,547 in specie, making in all, \$1,249,-495 shipped during the week ending to-day.

Railway Share & Stock List:

CORRECTED WEEKLY FOR THE AMERICAN RAILROAD JOURNAL.

NEW YORK, AUGUST 28, 1852.

21.211
GOVERNMENT AND STATE SECURITIES.
U. S. 5's. 1853
U. S. 6's, 1856108
U. S. 6's, 180%115
U. S. 6's, 1862—coupon
U. S. 6's, 1867118
U. S. 6's, 1868
U. S. 6's, 1868—coupon
Indiana 5's
Indiana 21 52
" Canal loan 6's
" Canai preferred 5's 48
Alabama 5's
Illinois 6's 1847 82
Illinois 6's, 1847
Kentucky 6's, 1871109
Massachusetts sterling 5's
Massachusetts sterling 5's
Maine 6's, 1855
Maryland 6's
New York 6's, 1854-5
New York 6's, 18t-0-'61-'62
New York 6's, 1864-'65120
New York 6's, 1 y., 1866
New York 54's, 1860-'61
New York 51's, 1865111
New York 5's, 1854-'55
New York 5's, 1858-'60-'62107
New York 5's, 1866
New York 41's, 1858-'59-'64101
Canal certificates, 6's, 1861
Ohio 6's, 1856
Ohio 6's, 1860109
Ohio 6's, 1870115
Onio 6's, 1875
Ohio 5's, 1865
Ohio 7's, 1851
Denneyleanie 5/2
Pennsylvania 5's
Pennsylvania 6's, 1879
Tennessee 5's
Tennessee 0'8
Tennessee 6's, 1880
Virginia 6's, 1886111

CITY SECURITIES—BONDS.	
Brooklyn 6's	105
Albany 6's, 1871-1881	105
Cincinnati 6's	103
St. Louis	961
Louisville 6's 1880	
Pittsburg 6's, 1869-1871	100
New York 7's, 1857	110
New York 5's, 1858-'60	101
New York 5's, 1870-'75	106
New York 5's, 1890	
Fire loan 5's, 1886	
Philadelphia 6's 18"6.200	104
Philadelphia 6's, 1876-'90. Baltimore 1870-'90.	100
Boston 5's	100
Doston 3 s	
RAILROAD BONDS.	P. SERODS
Erie 1st morigage, 7's, 1867	113
Erie 2d mortgage, 7's, 1859	
Erie income 7's, 1855	QR1

RAILROAD BONDS.	
Erie 1st mortgage, 7's, 1867	31
Erie 2d mortgage, 7's, 1859	180
Erie income 7's, 1855	1
Erie convertible bonds, 7's, 1871	NIA.
Hudson River 1st mort., 7's, 1869	774
Hudson River 2d mort., 7's, 1860	71
New York and New Haven 7's, 186116	064
Reading 6's, 1870	19
Reading mortgage, 6's, 1860	
Michigan Central, convertible, 8's, 1860 11	1
Michigan Southern, 7's, 1860	101
Cleveland, Col. and Cin. 7's, 1859	4
Cleveland and Pittsburg 7's, 1860	
Ohio and Pennsylvania 7's, 1865	
Ohio Central 7's, 1861	16
e which of the cours who to starte a	

RAILROAD STOCKS.

CORRECTED FOR WEDNESDAY OF EACH V	WEEK.
Aug. 19.	Aug. 26
Albany and Schenectady107	107
Boston and Maine 1064	108
Boston and Lowell	1094
Boston and Worcester 104	106
Boston and Providence 89	90
Baltimore and Ohio 824	834
Baltimore and Susquehanna 291	ad 30 m
Cleveland and Columbus	11 -
Columbus and Xenia	
Camden and Amboy146	THOME SO
Delaware and Hudson (canal) 1261	130
Eastern 96	98 1
Erie 884	864
Fall River	
Fitchburgh	105
Georgia	r mr sign
Georgia Central	sitemani
Harlem 751	72
	-111
Hartford and New Haven	127
" preferred	35
Hudson River 694	69
Little Miami	Louisia
Long Island 221	22
Mad River	99
Madison and Indianapolis 112;	110
Michigan Central	1114
Michigan Southern 1194	1204
New York and New Haven113	1144
New Jersey	134
Nashua and Lowell	ornauf.
New Bedford and Taunton	117
Norwich and Worcester 56	541
Ogdensburgh 26	261
Pennsylvania	464
Philadelphia, Wilm'gton & Balt. 321	32
Petersburg	RR SER
Richmond and Fredericksburg. 100	100
Richmond and Petersburg 35	35
Reading 924	941
Rochester and Syracuse	122
Stonington	594
South Carolina	331
Syracuse and Utica132	135
Taunton Branch	115
Utica and Schenectady 1364	140
Vermont Central 14	NAME OF STREET
Termont Central 14	141

7108

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20 7

fair

23

Wilmington and Raleigh 571 Railroad Lanterny, at win add and

.....1044

Vermont and Massachusetts 90

Virginia Central

Our readers will find an advertisement of every variety of railroad Lanterns in another page.

Railroad Rivairy.

It is an old saying that "competition is the life of business," but however old or homely the phrase, to a certain extent, yet, there is a point beyond which many kinds of business cannot compete profitably. At least it seems so to us. It more persons and more capital are embarked in any particular branch of business at a given point, than the wants of the community require, then it seems to our mind that just so far as such is the case, to just so great a degree as this is allowed to be prosecuted, to just that extent, and no further, will the become so reduced by competition as to be inadequate to the compensation of those employed in its transaction. As a general proposition the truth of this will be universally admitted. It strikes us, however, that like all general rules, this too has its exception. And if it has an exception, that one is in favor of railroads in this country. In the business of constructing and managing railroads in North America, there is, in our estimation, nothing which is likely to result in so much good to the country, as a lively competition. Of course we refer, in speaking of railroads in this connection. to legitimate projects, roads built in appreciation of the wants of the community. We do not wish to be understood to include projects started by a few interested individuals out of purely speculative motives. With such roads or proposed roads as do not command the sympathies of the inhabitants along their respective routes, or of the business men and capitalists of cities and large towns to be benefitted directly by their construction, sufficiently to insure their subscriptions or endorsement to that end, we disclaim all fellowship and sympathy, and class them among speculative schemes which may result well or ill as fortune favors or frowns upon, their management.

The point we wish to establish is simply this :-That a railroad constructed on a line where the people in its vicinity will subscribe stock and loan their credit in amounts, necessary to insure its completion, will result advantageously to all parties interested in it; provided it is constructed on an economical plan, and prudently managed.

Whenever a railroad can be constructed on this principle there will be no danger from rivalry. There will be no danger that the new road will the cry is "give," "give," and "how scarce and lack employment at remunerating rates, nor will high all things are." Our beef cattle, and prairie there be any danger that it will cause such a diversion of business from any other route as to be de- our pork both fresh and cured is from all the westtrimental to the ultimate interests of either, or cause any permanent falling off from their revenues .-The reasons for these conclusions are obvious; almost self-apparent. A line of road is built through beans and green corn, tomatoes, and numerous otha densely settled country, far from a good market. What are its effects? Why the farms that were so large and poorly cultivated formerly, are now divided up between the old settlers and the new who have been induced to come in because by means of the railway they can have an eligible market .-The lands are tenfold nearer market than they were previously, and nearly tenfold higher in value.-Three hundred miles is a ten day trip for a team in fair weather, and it is only one day for an iron New York? Their gardens and cow pastures are horse be the weather fair or foul. The lands are now highly cultivated and their produce commands cash at a good price in the (now) neighboring city. "But does not this increase of producers cause great embarrassment to the old farmers who live man, who has sold his land for village lots and is near the city and used to supply it with all the farm now living in affluence. And yet, we can recollect Nathan Camigs, Ira Crocker, J. C. Churchill, Wm. ed, humane individual. "His land cost him a high train of milk cars, and the Harlem followed with and Geo. W. Stanley, of Augusta.

price, he must be heavily taxed, and pay great another, these same old worthies were deadly opwages for his labor, while it would seem that the great influx of produce caused by the opening of so many new railways, must reduce the prices of it in market and destroy the profits of his farm."-Well, and so it would were there not immutable, unchangeable laws, which govern the system of trade. If the community through which the railroad passes were the only party benefitted, most undoubtedly the city farmers and dealers would suffer. But such is not the case. Every railroad opened exposes a new avenue of trade to the city, and if business be overdone and the profits on what is done the city buys more produce the country buys more goods; merchandize and manufactures. The more railways are built where there is a use for them, the more facilities are offered for emigration .-Emigrants in turn must have supplies from the city which they eventually pay for in produce, and all this gives such an increase to the business of the city that its population augments with greater rapidity. It extends its bounds and shortly absorbs within its limits many of those farms, whose owners our good hearted friend of the last century was just fearing would be ruined by the large supply and low price of produce; while the owners secure independent fortunes by such absorption.

But, now, how is it about overstocked markets and low prices? Do the cities complain of surfeit? Or are prices ruinously low? Twelve years ago this city had a population of 317,000 souls, scarcely any railroads, and depended upon the North river barges and steamers with some assistance from Jersey, for her farm produce, milk, and fruit. Westchester and Long Island furnished a little milk, and green produce. The milk was sloppy and impure, the farm produce was wilted and stale, and poultry, eggs and butter were scarce. Well, twelve years are passed, and what are the re-

We have a population in this city and suburbs composed of persons who do business in the city of at least 750,000 souls,-over one hundred per cent increase; we have railways stretching north, east, south and west, in continuous lines, with their heavy trains of cattle, horses, produce fowls, eggs, butter, cheese, cabbage, corn, and potatoes as well as all other kinds of produce for table use, and still chickens are fattened on the prairies of Illinois; ern states; our best flour and wheat from Canada and Michigan; our corn from the Wabash and Illinois valleys, and our butter, eggs, poultry, peas, er delicacies are from Ohio, Pennsylvania, and N. York, while New Jersey, North Carolina and Georgia on the south furnish us fruits and many other luxuries early in season, and yet all these things are as scarce as ever, and prices are quite as high.

Where are Westchester, Harlem, Long Island, Bergen, Newark, Elizabethtown, Rahway, and many others of the old gardens and dairy places of now covered with the suburban residences of New York merchants, mechanics and workingmen, with now and then, one even more costly than the rest, occupied by the rich old farmer or milk-dairy

posed to railroads as inimical to their interests, despoilers of their trade and consumers of their pro-

From these facts we may see the effects of railroads on all fertile countries as well as all large cities whither they tend or where they terminate. As a general rule it will be found that a railroad constructed through a fertile section of country will induce a sufficient increase of business to employ one track constantly, and eventually a double track will be needed, and hence, roads should be located with reference to local business, for this is their dependence. They should be located with an eye to the accommodation of the public in so far as the public and local interests can both be accommodated. We say this because so much stress is apt to be laid upon the probability that "our route" being the "shortest route," or the "most feasible" route from "everywhere" to "everywhere else and consequently every body must go over it." Why take so much pains to make this fact appear to the public when it is not the most important fact to you?

It is well known that passengers and mails will go by the route where there is most business. If then, your route is destined to be a through route, strive to serve local interests. This will build up business interests and connections with people abroad, who will take your route in their line when they travel. You may think your route the shortest to-day, and to-morrow some new route will spring up, perhaps never dreamed of before, which will drive you to a dependence on local business. Such things have happened ere this, and doubtless will happen again. And, it is for this reason, that a road should never, as a general rule, be constructed simply as a through route, and regardless of local business. It is liable to lose a portion of its through business at any moment, but local business partly built up by it, and which it was constructed to foster, never can desert it. Each will indemnify the other, and the work will prove mutually advantageous to those interested in it. Two roads may run parallel with each other through a fertile country, so they be twenty-five miles apart, and both will have all they can do. What folly then to look upon each other as rivals! What folly to run prices down so low as to make both unprofitable by allowing the loss on through business to eat up the profits on local! There are many other features of this kind of rivalry which we may examine at some other time, but this article is already much more lengthy than we had intended.

Canada.

The Trunk Railway.-A proclamation has been published authorising private companies now existing or hereafter to be created by the legislature to construct a main trunk line of railway from opposite Quebec, to the village of Richmond on the St. Francis river, thence by the St. Lawrence and Atlantic railroad to Montreal, thence to the city of Kingston on some point in its vicinity on Lake Ontario or the St. Lawrence; thence to the city of Hamilton, or some convenient point on the Great Western road, and terminating at the Detroit river.

Penobscot and Kennebec Railroad.-At the annual meeting held at Bangor, July 27th, the following gentlemen were chosen directors: John M. Wood. produce, green vegetables, ete ?" asks a good heart- very well, when the Erie railroad first brought in a Kimball, of Portland, Samuel Pickard, of Lewiston

Indiana.

Peru and Indianapolis Railroad.-A letter from Capt. E. G. Barney, the Chief Engineer of the above road, addressed to E. W. H. Ellis, Esq., the President, briefly enumerates its features. The road connects the capital of Indiana with the Wabash and Erie canal, at Peru, passing through the quence not only to the coal regions, and to western been fitted up in this way. county towns of Hamilton, Tipton and Howard and central New York, but is to become an imcounties. The character of the road for grades and portant link, in the great central line of road thro' curves is extremely favorable, the tangent line is the State of Penn. 59 miles, 4584 feet long, and the curved line, 11 miles, and 4140. The average ascent per mile on H. V. Poor, Esq: grades running north is 17 feet, running south 19 8-10. The superstructure is laid on a well ballasted road, the rail of the T pattern weighing 60 lbs. on white oak cross ties 20 inches apart. The total cost including depots, locomotives, passenger and freight cars, will not exceed \$1,150,000. The assets are stated as follows:

Total subscription to capital stock	\$501,000
Probable increase to capital stock	99,000
Seven per cent bonds	600,000
Value of depot grounds and right of way.	43,275
Value of "flat bars" to be taken up	20,000

Total.....\$1,263,275 Toledo is the common point to which freights from Indianapolis tend during the Lake navigation. Capt. B. presents the following table of freights on a ton to Toledo by a number of the railroads of the

			Total cost
			per ton to
	Rou	te	Toledo.
			Terre Haute\$5,11
	"	44	Lafayette 4,01
	66	66	Gosport 5,90
	**	88	Bellefontaine 4,43
	**	88	Richmond 4.52
	.1	8.6	Lawrenceburgh 4,97
	**	66	Madison 5,64
	**	**	Peru 3,46

The Peru and Indianapolis railroad will draw produce from 15 of the richest counties in the State -the population of these counties by the late census, was......184,016 Land in cultivation acres......851,712

The P. and I. R. R. connects, besides the Wabash and Erie canal before mentioned, with the line proposed from Toledo through Indiana and Illinois, and the extension by way of Goshen to the Southern Michigan and Northern Indiana railroad. The of this route, as the proper one to connect the Penngross annual receipts are estimated at \$330,000 and sylvania and New York system of public works; the net at \$198,000. The 1st of January, 1854, is but from the favorable results of their surveys, and the period when the road is expected to be com- from the fact that most of the business to pass over pleted.

Georgia.

The South-western Railroad .- This road was regularly opened for business on the first August,

Receipts for the year ending July 31, 1852, as fol-

W	5:			
or	freight	 	\$80,878	44
**	passengers	 	46.016	50
**	II. S. mail		0.500	00

riod have been 57,535 17

Leaving a balance of net earnings of. \$71,335 17 Out of this sum the directors have declared a dividend of eight dollars per

share, amounting to..... \$44,536 00

Leaving a surplus of \$26,999 17 The total number of passengers transported dur-ing the year is 42,649; being an average of 1164 per day—number of bales of cotton transported 45,per day—number of bales of cotton transported 476—total number of miles run by trains 46,475. Macon Telegraph.

Blossburgh and Corning Railroad.

Below we give an extract from a letter of an intelligent gentleman, who has recently had an opfields of Pennsylvania. This road is of vast conse-

To the Editor of the American Railroad Journal.

DEAR SIR: I have just passed over the route of the railroad from Corning to this place.

That part in the State of New York is now called the Corning and Blossburgh railroad-the part in Pennsylvania is called the Tioga raitroad--the latter, 26 miles, the former, 14 miles long.

These roads you are aware were originally constructed with the strap or flat bar rail, and proved to be entirely insufficient to accommodate the business of this region.

The road is now being relaid with first quality iron, Erie railroad pattern, and upon the 6 feet gauge. The short curves have been straightened and the grade made, at all parts of the road, gradually and uniformly to descend from the coal mines to Corning. The work along the whole length is being actively pushed forward and about two-thirds of the road is relaid. New engines and cars will be ready to be placed on the road as soon as it shall be completed.

The part of the road finished is the best I have yet seen. Ties very large and good and close together, ballasted with gravel and well laid. It is indeed a very superior road and will give a suitable opening to the bituminous coal. Of this mineral there is here an inexhaustible supply, as I am convinced by a personal inspection of many of the veins, and of a superior quality.

The quantity to be sent over this road and distributed by the New York and Erie railroad, and its branches, and the New York canals, will be im-

Surveys have been made to connect this road with the Williamsport and Elmira railroad at or near Ralston, which prove its practicability. Little has been said by the friends of the Tioga railroad any such connexion, must come from points west of Elmira, it is now reduced to a certainty that this judge for themselves. union will be made and road finished as soon as the Susquehanna road is completed to Williams-

You may imagine how immensely valuable these roads will become and within a reasonable period.

Pennsylvania.

Alleghany Valley Railroad .- The location of this road between Pittsburg and Kittanning, is going in fuel. on rapidly. For some miles below Kittaning, as far as the engineers had gone, they found the line very favorable, level, and nearly straight. The negotiations for the right of way have already been commenced, and all on the line were disposed to treat the company liberal.

Louisiana.

The citizens of Claiborne have contributed \$1000 The citizens of Claiborne have contributed \$1000 towards a preliminary survey of the proposed rail-road in North Louisiana, the Vicksburg, Shreve-port and Texas railroad, is the title of the project.

Railroad Looking Glass.

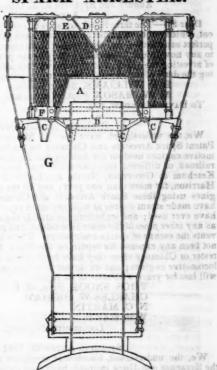
The European roads have adopted the plan of placing a looking glass before the engineer of a loco portunity of inspecting the above work, which is motive in such a way as to enable him to see the the great northern outlet for the bituminous coal entire train without turning. The locomotives on the line from Brussels to Antwerp, have recently

New York and New Haven Railroad.

Mr. W. P. Borrall has resigned the Presidency of the Housatonic railroad, and D. J. Sperry, Esq., ot Stockbridge, has been elected in his place. Mr. Burrall is fully occupied by his duties as vice president of the New York and New Haven road.

Mr. Marshall, president of the Southern railroad company is on a mission to the north to make arrangements for its extension towards the east.

Matthew's Patent SPARK ARRESTER.



THE Patentee of the above named Spark Ar-rester invites the attention of Railroad Directors and Officers of Railroads, who have no other interest than the comfort and safety of passengers, and the economy of their company, to test them and judge for themselves. To all such persons, the Patentee will furnish his Patent Spark Arrester free of charge, by such parties sending the necessary di-mensions. And the price will be, for the Spark Armensions. And the price will be, for the Spark Arrester and Chimney, with patent right to use and repair the same, all ready to place on the Locometive, \$130—if approved; if not approved, and returned, no charge made. He warrants them superior to any in use, in all points, lighter, cheaper, more decades as a superfrom 15 to 20 per cent durable, safer, cleaner, saving from 15 to 20 per cent

The necessary dimensions to be furnished, are 1st. The radius of the smoke box, on which the

pipe sets.

2d. The height from smoke box to top of pipe. 3d. The diameter of cylinder and length of stroke: 4th. Whether a cut-off is used or not.

DAVID MATTHEW,

Penn st., (one door north of Almond st.,)
Philadelphia, Pa.

TESTIMONALS.

gines, which were furnished by David Matthew constructed according to the specification attached

They are by far the best smoke pipe and spark arrester that we have tried or seen.

No inconvenience from sparks or cinders is suf We consider them a great improvement, and regard them as almost indispensable in our business.

JOHN WILKINSON, President.

Office of the Auburn and Rochester R.R. Co.,

Office of the Auburn and Rochester R.R. Co.,
Canandaigua August 26, 1842.
This may certify, that there has been in use on
the Auburn and Rochester railroad, for the last two
years, eight of Matthew's "Patent Spark Arresters,"
which have given the most perfect satisfaction.
From the use of the Arresters on this road, and what
I have seen of them elsewhere, I have no doubt but that they are the best in use in the country

R. HIGHAM,
Supt. and Engineer A. & R. R. R.
To David Matthew, Machinist.

Auburn and Syracuse R. R. Office,

August 29, 1842.

Dear Sir—The three Spark arresters of your patent, which we have in use on our road, have given ent, which we have in use on our road, nave given perfect satisfaction, and we consider them superior to any now in use, combining as they do the power of arresting the sparks and cinders, without affecting the draft of the engine. Respectfully yours, E. P. WILLIAMS, Superintendent.

M. W. MASON, Supt. of Machinery.

To DAVID MATTHEW, Esq.

Rochester, August, 1842.

We, the undersigned, have used D. Matthew's Patent Spark Arresters and Chimney on the locomotive engines used on the Auburn and Rochester railroad, of different manufacturers, viz: Rogers, Ketchum & Grosvenor, Norris, and Eastwick & Harrison, for more than one year; and all the engines using these Spark Arresters and Chimney have made steam as tree as with any other pipe we have ever used: and we believe the draft is as good have ever used; and we believe the draft is as good as any other pipes of the same dimensions, and prevents the escape of sparks and cinders. There has not been any expense for repair on the Spark Arrester or Chimney since they have been put on the locomotive engines; and we further think that they will last for years with little or no repairs.

THOS. SNOOK, Supt. M. P. CHARLES W. HIGHAM, N. C. MARTIN, WM. HART,
Locomotive Engineers. have ever used; and we believe the draft is as good

Syracuse, August 21, 1842.
We, the undersigned, locomotive engineers on the Syracuse and Utica railroad, have used during the last two years, David Matthew's "Patent Spark Arresters and Chimneys," and on our engines we have been able to generate steam as freely as with any other pipe we have ever used. The draft is as strong and free as that of an open pipe of the same diameter, and most effectually prevents the escape of fire and cinders. There have, as yet, been no repairs required to any of these pipes, and we berepairs required to any of these pipes, and we believe they may be used for years with but trifling
expense to keep them in perfect order. We certainly consider this pipe a great improvement over
any other with which we have been acquainted.

DAVID BEGGS, Supt. M. P.

DETER GRANT

DAVID BEGGS, Supt. M. P.
PETER GRANT,
WILLIAM McGIBBON,
WILLIAM CESSFORD,
JAMES BONNER,
JOHN VEDDER, Jr.,
Locomotive Engineers.

Syracuse, April 4, 1847.

Mr. DAVID MATTHEW:

Dear Sir—Your letter came duly to hand, in re-lation to the Spark Arresters. Those which we use are all of your patent; and on the neighboring roads we got others to try, but they were not good, and we had to substitute yours.

I am, dear sir, yours respectfully,
DAVID BEGGS,
E. M. P. Sy, and Utica Railroad.

Utica and Schenectady Railroad Office, May 5, 1847.

Mr. DAVID MATTHEW:

Sir :- In regard to the "Spark Arrester." several kinds have been tried; but yours, as you left it, has been constantly in use. We have your patent on fifteen engines, and use no other kind. Nothing

tried here has been so acceptable to us.

Respectfully your ob't serv't,

WM. C. YOUNG,

Supt. and Eng. U. & S. R. Co.

Locomotive Works, Philadelphia,

February 2, 1850.

Mr. David Matthew, Vulcan Works, Baltimore:
Dear Sir:—Your letter of 30th ultimo reached us only this morning, and in reply we would state, that we have not had much opportunity of judging of the merits of your Pipe in comparison with others, but that on the Utica and Schenectady Railroad, where we have a number of our engines running, your Pipe is exclusively used, and preferred to all others.

Yours, very truly, NORRIS, BROTHERS.

Patterson, N. J., Feb. 6, 1850. Mr. David Matthew, Baltimore: Dear Sir:—Your favor of the 31st January is received. When we used your Spark Arresters on our locomotives they gave entire satisfaction, and we should have continued to use them if we could have procured them; but the gentleman at Cats-kill, who, we understood, had made arrangements with you respecting the sale of the right to use them, refused to furnish them, except there was an agreement made for selling the right to the whole road. This we could not do, which compelled us to procure our Spark Arresters elsewhere.

We have often been applied to for your Spark Arresters; but as we could not procure them, we

have been obliged to furnish others.

Your Spark Arresters have been highly spoken of by all those that we know who have used them, and we think they are equal to any in use.

Very respectfully, ROGERS, KETCHUM & GROSVERNOR. Per S. J. ROGERS.

Utica and Schenectady Railroad Office, Schenectady, Feb. 19, 1850.

Dear Sir-I received yours of January 25th, in reply to smoke-pipes, we consider the Spark Arrester of yours, used by us, far superior to any in use.

Respectfully, your obedient servant,
C. VIBBARD, Sup't U. & S. Railroad.

Arrester is the best that has ever been in use in this country. I have seen all others, or nearly all others tried, but your invention, as patented 31st December, 1840, possesses all the requisites for railroad and other uses in a degree decidedly superior to the mall. Lam near regulations are recommended to the seen all the requisites for railroad and other uses in a degree decidedly superior to the mall. rior to them all. I am now employed as an engine builder in the establishment of the Hudson River Railroad, and after a careful trial of all the spark arresters and pipes most esteemed in this country, we have found yours to be decidedly the best, and, in this opinion I am supported by the chief super-intendent of motive power of that road, who has so expressed himself to me.

I am, very respectfully, your ob't serv't, JOHN TAYLOR.

David Matthew, Esq:
Dear Sir—Your "Patent Spark Arrester," has been in use on our Locomotives since 1840, during which time we have tried several of a different con-struction. We can recommend yours as being the most effective and economical of any used by us. Little or no inconvenience from sparks is suffered by passengers; nor is the draft obstructed. From the best estimate we can make they can be kept in repair for about ten dollars each per year.

C. VIBBARD, Superintendent.

V. BLACKBURN, Mast. Ma.

Office of the Syracuse and Utica R. R. Co.,

Office of the Syracuse and Utica R. R. Co.,
Syracuse, August 7, 1851.

My Dear Sir:—I am glad that you obtained your
right of building Spark-Arresters, and most certainly it is the best in use, and generally approved of.
I think they are using them pretty generally on the
Hudson River R. R., and all the other patents which
have been made since the date of yours, are copies
in some degree, from yours. Anything that I can
do to forward your interests in this matter will be
done with cheerfulness. I think of going to Philadelphia this summer, and shall call on you.
Yours, very truly,
D. BEGGS.

Utica and Schenectady Railroad Office,

Utica and Schenectady Railroad Office,
Schenectady, August 30th, 1851.
This is to certify that Mr. David Matthew's
Spark Arresters have been used on a number of
the locomotives constructed by the Newcastle
Manufacturing Company. They have, in all cases,
given entire satisfaction. With them the exhaust
pipes can always be made sufficiently large to ensure a full discharge of steam; while at the same time, they afford the necessary draught, and com-pletely stop the sparks. I cheerfully recommend them to the attention of railroad companies and manufactures of locomotive engines.

ANDREW C. GRAY

Pres't Newcastle Manufacturing Co.

Albany, September 8th, 1851.

Gen. W. Swift:
Dear Sir—This will serve to introduce to your favorable notice Mr. David Matthew, who is the inventor, and holds the patent for a Spark Arrester, which has been used by many of our railroads on their locomotives. I consider it a valuable improvement, and do not doubt but Railroad Compa-nies will generally use it. Yours respectfully, ERASTUS CORNING.

> Office Hudson River Railroad, New York, February 14, 1852.

D. MATTHEW, Esq.,

Dear Sir—I am so little acquainted with the merits of different kinds of Spark Arresters, that I do not feel competent to give an opinion for publication. I know that your Arrester is a good one, and has been highly esteemed on the roads where I have been employed. But I have not sufficient practi-cal knowledge of the subject, to venture any com-parison of its merits with other kinds of arresters.

Yours truly, O. H. LEE, H. R. R.

Office of the Hudson River R. R., 31st st., New York, May 16, 1852. Mr. David Matthew:

Dear Sir—I have been acquainted with your Spark Arrester since its introduction, and have carefully watched its operation in comparison with Dear Sir:—In reply to your enquiries I have to state, that I have been engaged in the manufacture of your "Spark Arrester and Smoke-Pike for steam engines," for over ten years last past.

I have no hesitation in saying, that your "Spark Arrester without diminution of draft, it have no hesitation in saying, that your "Spark Arrester without diminution of draft, it has no equal in use. I have been able to use a much larger exhaust pipe than with other pipe, and, the court of the pipe, and, the pipe and pipe than with other pipe, and, the pipe and pipe than with other pipe, and, the pipe and pipe than with other pipe, and, the pipe than with other pipe.

Superintendent of Motive Power.

I have this day purchased the right to use the above pipes on the Saratoga and Washington railroad, and concur in all that Mr. Sargent has said of them.

J. VAN RENSSELAER, Superintendent S. & W. R. R. Saratoga Springs, May 22d, 1852.

Albany and Schenectady Railroad, Albany. Having used Mr. Matthew's Spark Arrester on our engines, and considering it a valuable invention, we have purchased the right to use it on our road.

E. C. M'INTOSH, President.

Schenectady and Troy R. R. Office,
Troy, July 20th, 1852.
I have this day purchased the right to use Mr.
Matthew's Spark Arrester on this road; I have been acquainted with this Spark Arrester for ten years, and consider it the best that has come under my notice.

EDWARD MARTIN, Superintendent S. and T. R. R.

Office Rensselaer and Saratoga Railroad, Troy, May 221, 1852.

Troy, May 224, 1852.

This may certify that I consider the Patent Locomotive Smoke Pipes and Spark Arrester of D. Matthew's as more economical and safe than any now in use. It is more durable, and throws less fire and cinders, without impairing the draft, they have been in constant use upon the different roads under my charge since 1841, as have all the other various kinds now used, and after this long experience and careful observation, I am entirely satisfied that those invented by Mr. Matthew are decidedly the best, and I have secured the right to use the same by this company, and the Saratoga and Schenectady railroad company, by purchase made yesterday.

L. R. SARGENT, Superintendent. now in use. It is more durable, and throws less

I have this day purchased of Mr. Matthew the right to use his Spark Arresters on the Syracuse and Utica railroad. I believe it is the best pipe there is.

JOHN WILKINSON, President S. & U. R. R.

Syracuse, July 16, 1852.

I have this day purchased of Mr. David Matthew the right to use his Patent Spark Arrester on the Rochester and Syracuse railroad, during its present term, and renewal or extension, believing it to be the best Arrester now in use.

CHARLES DUTTON, Supt.

Superintendent's Office Buffalo and Rochester Railroad Co.,

Buffalo, July 29, 1852.

David Matthew, Esq., has this day conveyed to this company the right to use his Spark Arrester, patented in 1840. It has been in use on this road for some years past, and gives better satisfaction than any other improvement claiming the name of Spark Arrester.

HENRY MARTIN, Superintendent, J. W.

REFERENCE is made to the following Gentlemen and Companies, with whom Agencies have been established for the sale of the Spark Arrester, and rights under the Patent:—

nave been established for the sale of the Spark Arrester, and rights under the Patent:—

Erastus Corning, Esq., Albany, N. Y.; Messrs. Rogers, Ketchum and Grosvenor, 74 Broadway: New York city, and at their Works in Patterson, N. J.; The New Jersey Locomotive Machine Company, at Patterson N. J., James Jackson, President,—address also at Patterson, Messrs William Swinburne & Co., Locomotive Builders, Patterson, N. J.; Messrs. Norris, Brothers, Philadelphia, Pa.; M. W. Baldwin, Esq. do; A. C. Gray, Esq., Newcastle Manufacturing Company, Newcastle, Delaware; the Schenectady Locomotive Iron Works, Schenectady, N. York; The Boston Locomotive Works, Boston, Mass.; The Taunton Locomotive Works, Boston, Mass.; The Taunton Locomotive Manufacturing Company, Taunton, Mass.; Wm. Cundle Patterson, N. J.; Clute & Brothers Schenectady; Peter Smith, Albany, N. York; Thomas Snook, Rochester, N. Y.; Nashville Manufacturing Company, Nashville, Tena.; Niles & Co., Cincinnati, Ohio; Cuyahoga Works, Ohio City.

All applications for the use of the above Patent Rights, etc. for the New England States, and New York, East of the Hudson River, to be made to H. VAN KURAN, Boston Locomotive Works, Mass., or to D. MATTHEW, Patentee, Philadelphia, Pa

NOTICE.—Railroad Companies getting new engines, can have Matthew's Patent Spark Arrester placed on them, by applying to the manufacturers, so that the apparatus costs them nothing but the patent right. This they will find of great advantage to them.

D. M.

To Railroad Co's, Locomotive Builders and Engineers.

THE undersigned having taken the Agency of Ashcroft's Steam Gauge, would recommend their
adoption by those interested. They have been extensively used on Railroads, Steamers and Stationary
Boi'ers, where, from their accuracy, simplicity, and
non-liability to derangement, they have given perfect
satisfaction. In fact, for Locomotives, they are the
only reliable Gauge yet introduced.

CHAS. W, COPELAND,
Consulting Engineer, 64 Broadway.

Aug. 28, 1852.—6m*

"Leonard's" Patent Double Plate Car Wheel.
HE form of this Wheel is such that the metal is

I not strained in casting, hence the manufacturer will warrant them in any service Car Wheels are sub-

Sold in any quantity, and shipped to any part of the country or Canadas, by the subscriber, Manufac-turer and Patentee, sole Agent 53 Killy St., Liberty Square, Boston. WM. S. SAMPSON. Square, Boston. August 21, 1851.

LOW MOOR AXLES,

A SUPERIOR Article for Railroad Cars, supplied by the Manufacturers' Agent - WM. BAILEY LANG, 9 Liberty Square, Boston.

500 Tons of Wire Wanted. PROPOSALS ARE INVITED by the under-signed, on the part of the NIAGARA FALLS INTERNATIONAL BRIDGE COMPANIES, for the construction of the Wire Cables of the Rail road Suspension Bridge, of 800 feet span, to be erected over the Niagara river, below the Falls, for the delivery of ONE MILLION of POUNDS of IRON WIRE, or any portion of it, not less than 100,000 lbs., at the site of the bridge, on the following conditions:

1. The wire is to be of No. 10 size, so that 20

feet will weigh exactly one pound.

2. The skeins to weigh no less than 18 lbs. An offer for 30 to 40 lbs. will be greatly preferred. The wire must be finished with a lime coat smooth and even, both ends of the same thickness.

4. It must be finished in three holes, or nearly as hard as spring-wire.

5. The iron must have been manufactured of the best quality of charcoal blooms, which will make wire of great elasticity, strength, fibre and hard toughness

The blooms must have been manufactured of cold-blast charcoal pig, and not of anthracite pig, nor of hot-blast pig.

7. Satisfactory evidence will be required before hand of the quality of the iron, of which the wire is to be drawn.

8. The wire must be drawn on blocks of no less than 2 feet diameter.

9. It must be put up in bundles of 200 lbs., a

near as can be done, without small skeins.

10. The wire is to be delivered in five equal portions during the months of May, June, July, August and September of next year

11. On delivery, the wire will be examined and tested in the following manner:—Of every 5 bundles or 1,000 lbs. one skein will be selected, and suspended between two posts 400 feet apart, the one end attached to a capstan, by which it will be gradually hauled on until it breaks. The condition now is, that this wire must not break with a greater deflection than 9 inches, which is equivalent to 1,300 lbs., or 90,000 per superficial inch of solid wire section. It it stands this test, then further examination of that one thousand pounds, in respect to other qualities, will be continued; but if not, it will be rejected and placed at the disposal of the contractor.

12. As regards toughness and fibre, each end of a skein will be tested by bending it square over the jaws of a large pair of new and sharp pliers, and bending it back again. The wire must stand this test without the least sign of failure. Its hardness and elasticity will at the same time be examined by bending and swinging, also by hammering, filing and notching the ends, which forms part of the operation of splicing. 12. As regards toughness and fibre, each end of operation of splicing.

13. Such lots as have stood the various tests sat-tsfactorily, will then be accepted conditionally, and 80 per cent of its full value will then be paid to the

contractor in bankable funds. 14 The 20 per cent will be reserved for four months longer. Should in that time, during the construction of the cables, any more detective skeins be discovered, such skeins will be rejected skeins be discovered, such skeins will be rejected and placed at the contractor's disposal, either broken or whole, oiled or not oiled, in such condition as they happen to be during the progress of the work. The value of such wire, together with the labor expended upon it, will then be deducted out of the 20 per cent reserved.

15. The undersigned, as the Engineer of the Lowell Mass., August 23, 1852.

Bridge, will be the sole judge of the above tests; he will stand as an impartial umpire between the contractor and the Bridge Companies, and from his

decision there shall be no appeal.

16. Proposals for imported wire will also be accepted. One-half or 500,000 lbs. will be used on the Canada side, and may be bonded, if imported by way of New York.

17. Proposals will be received until the 1st October next; they are to be directed to the under-signed at Niagara Falls, N. Y., and should be marked on the envelope, "Proposals for Bridge

18. Those contractors, whose proposals are accepted, will be informed of the fact by mail before or on the 10th October next.

JOHN A. ROEBLING Eng. Niagara Falls R.R. Suspension Bridge. NIAGARA FALLS, N. Y., August 5th, 1852.

Notice to Contractors for Masonry and Bridging.

LABAMA AND TENNESSEE RIVER R. R. P. PROPOSALS will be received at the office of the Alabama and Tennessee River Railroad Company, in Selma, Alabama, until the 15th September next, for the Masonry and Superstructure of "Coosa," Waxahatchie," "Talladega" and "Chockolocko" Bridges, and also for the other masonry required on 90 miles of this road.

The work comprises about 3,000 lineal feet of Timber Bridging and 20,000 perches of Masonry, and is situated in a healthy country, where materials, provisions and labor are abundant and cheap.

Plans and specifications may be seen, and all in-formation will be furnished at the offices of the Engineer Department in Selma and Talladega, Ala-

Satisfactory evidences of ability and responsibility will be required from those proposing for the work.

LEWIS TROOST,

Chief Engineer. New York, August 3d, 1852.

I. Dennis, Jr., WASHINGTON, D. C.

A TTORNEY for Inventors, and Agent for Procuring Petents—Practical Machinist, Manufacturer and Draughtsman, of 20 years' experience. Circulars containing important information, with a map of Washington, sent to those who forward their address, and enclose a stamp.

To Contractors.

PROPOSALS will be received at the office of the Alabama and Mississippi Rivers Railroad The Alabama and Mississippi Rivers Railroad Company, in Uniontown, Ala., until the first of October next, for the Graduation, Masonry, Bridging and Cross-ties of said road, from the west bank of Valley Creek to Uniontown, 28 sections about one mile each. Bids proposing the entire payment, or a percentage thereof, in the stock of the road, will receive the worst favorable consideration. Specification of the control of the c receive the most favorable consideration. Specifications can be seen at the office of the company in Uniontown, and also at the office of the Chief Engineer in Selma, Ala. J. J. DRAKE, Seer'y, Uniontown, Ala., August 16, 1852.

Locomotives and Machinists' Tools. THE LOWELL MACHINE SHOP

Is prepared to execute orders for Freight and Passenger LOCOMOTIVES of different classes, with outside or inside Cylinders of approved design and faithful workmanship.

MACHINISTS' TOOLS,

with the latest improvements—consisting in part of Hand and Engine LATHES; VERTIC AL DRILLING MACHINES; PLANERS; COMPOUND PLANERS; SHAPING MACHINES; SLOTTING MACHINES; BOLT CUTTERS; Machines for boring Crant Pin holes; Trip Hammers, etc., etc.

WILLIAM A. BURKE,
Superintendent

TRUSTEE'S SALE

Of the Property, Personal and Real, of the Maryland Mining Company, in Alleghany County, Maryland.

By virtue of a decree passed by the Circuit Court for Alleghany county, as a Court of Equity, the undersigned, Trustees, will sell at public sale, at the Eckhart Mines of the Maryland Mining Company, ON THE FIRST DAY OF SEPTEMBER, 1852, At Twelve o'clock, Noon, All that Valuable Mineral Estate belonging to the Maryland Mining Co. and which sell company has

Maryland Mining Co., and which said company has been improving for the last seven years, by the expen-diture of a vast amount of capital.

The Real Estate consists of two Tracts of Land called "THE MARYLAND MINING CO.," and "FOUNTAIN INN," located in one body, containing about

1900 Acres of Land, a large part of which is underlaid by the

GREAT VEIN OF COAL 14 feet in thickness, likewise by many other veins, varying in thickness from 2 to 4 feet, the whole located in the very heart of the Great Semi-bituminous Coal Fields of Maryland.

Fields of Maryland.

ALSO—Two other Lots or Parcels of Land, containing 50 acres each, known as LOTS NOS. 3970 and 3972; these Lots are heavily timbered, and are said to be underlaid by the GREAT VEIN, or 14 feet vein of eval.

Also—Lots Nos. 3401, 3402 and 3403, containing 50 acres each, and adjoining the tract called "Maryland Mining Company," and underlaid with the great vein

Mining Company, and the Mining Company, and the Mining Company, and the Mining Containing about 80 acres, situated on Braddock's Run, two miles below the village of Eckhart. This land is heavily timbered, with timber suitable for RAIL-ROAD CROSS TIES and other purposes. Braddock's Run affords many excellent sites for Saw or other Mills on this property.

Also—Two Lots of Land on the Canal Basin and Betorage River, containing 194 acres of land, being

Also—A Tract or Parcel of Land situated at the junction of Braddock's Run and Units debt the whole length to Bottom Land.

31 and 32.

The two first Tracts of Land are divided into desirable FARMS, well watered and eligibly situated, and are in a high state of cultivation. The soil is good, and there is an immediate and certain market on the property in supplying the laboring population at the works with the products of the farm.

THE VILLAGE OF ECKHART MINES contains about 100 BUILDINGS of Wood, Brick and Stone, among them 1 Store house, 70 Dwellings, Machine Shop, Locomotive and Stationary Engine Houses, Cerpenter Shops, Blacksmith do., Stables, Barns, etc., etc., all new and in the best repair. The village is situated near the centre of the property on the National Road, one and a half miles east of Frostburg; it is immediately convenient to the en-trance of the Mines and affords accommodations to a

population of 7 or 800 souls.

The Coal Mines are opened to be worked both by horizontal and slope workings, to an extent sufficient to meet the necessities of the largest coal trade. Besides the Eckhart Mines already opened, the Hoffman and other openings upon the property are eligibly sit-uated to furnish vast amounts of coal on a very mod-

uated to furnish vast amounts of coal on a very moderate outlay for improvements being made.

Also—A RAILROAD 94 miles in length, from the Mines to a junction with the Mt. Savage Railroad by which a continuous line of transportation is provided to the Baltimore and Ohio Railroad Depot, in the town of Cumberland, and by a branch Railroad to the Chesapeake and Ohio canal The road is laid partly on cross ties with a rail weighing 62 lbs. per lineal yard, and partly with an edge rail weighing 58 lbs. per yard supported by string timbers and cross ties, the whole in good repair, and constant transportation passing over it, together with full and ample right of

way for the same acquired by condemnation and pur-

chase.

Also—A Brauch Railroad from the Mt. Savage Railroad about one mile in length to the property of

Also—A Brauch Railroad from the Mt. Savage Railroad about one mile in length to the property of the Cumberland Basin company in the town of Cumberland, said road being new and in the best order, laid with a heavy rail of 62 lbs per yard and large oak cross ties. The two roads above mentioned of the aggregate length of 94 miles costing over \$250,000. Also—A vast amount of personal property, for railroad and mine equipment, too numerous to mention in detail, but consisting in part of the following articles: 2 first class coal burning LOCOMOTIVE ENGINES. (Winans' make) weighing 23 tons each; 1 second class wood and coal burning do., (English make and American rebuild,) and weighing 15 tons; 1 second class, do., do., 12 tons; 30 iron coal cars; 11 Gondola coal cars; 5 coke cars; 14 platform lumber cars; 2 passenger cars; 170 mine cars for the mines; 1 superior turning lathe and other machinery, tools and implements for repairing engines and cars. Also, Horses, Carts, Oxen, Wagon and Farming Utensiis, etc., etc., etc.

The revenues of the Railroad growing out of the transportation of coal and miscellaneous freight and from passengers, are more than enough to pay the interest on its cost and keep it in repair.

It is not possible in an advertisement of this kind to give a full description of the property in question, but the object of the undersigned will be effected if they shall be able by this means to call the attention of capitalists to this magnificent property, which contains within itself all the elements necessary to sustain a large mining and manufacturing business, villages erected for workmen, collieries open ready for working—Railroad and Canal communication with

lages erected for workmen, collieries open ready for working—Railroad and Canal communication with

THE TERMS OF SALE as prescribed by the decree are, one fourth of the purchase money in cash on the day of sale, and the balance in three equal instalments of six twelve and eighteen months, with interest from the day of sale, the purchaser giving his notes or bonds with security to be approved by the Trustees, or the whole purchase money may be paid in cash at the option of the purchaser.

For further information apply to M. O. Davidson, Engineer and Superintendent, at the Mines, who will exhibit the property and explain its capabilities, or the undersigned Trustees,

GEORGE WM. BROWN,

Baltimore. THE TERMS OF SALE as prescribed by the de-

Baltimore.
WILLIAM PRICE,
GEORGE A. PEARRE,
THOMAS J. McKAIG,
Cumberland, Trustees.
Notice is hereby given, pursuant to said decree, to
the creditors of the Maryland Mining Company to
file their claims with the vouchers thereof in the office
of the Clerk of the Circuit Court for Alleghany county, within two months from the day of sale.

of the Clerk of the Circuit Court for Allegnany coty, within two months from the day of sale.

GEORGE WM. BROWN,
WILLIAM PRICE,
GE - RGE A. PEARRE,
THOMAS J. McKAIG, Trustees.

To Contractors.

SEALED PROPOSALS will be received at the office of the Lackawana and Western Railroad Company, No. 45 Wall street, New York, until the 3rd day of September next inclusive, for the construction of a Tunnel, on the line of the Lackawana and Western Railroad, size 18 feet square, and about 2200 feet in length.

The excavation will be rock, of very favorable

character for drilling and blasting.

The North end is open, and tunnelled about 100 The earth excavation at the South end is now being made.

Parties desirous of bidding, can visit the work daily, via New York and Erie, and Lackawana and Western railroads, distance from Great Bend about 30 miles, and from Scranton, 18 miles.

For further information, apply at No. 45 Wall street, or at the Company's Office in Scranton.

Notice to Contractors.

新智麗館 od file III mpogosososos III ujeno resigno SEALED PROPOSALS will be received at the Engineer's Office of the Marietta and Cincin-D Engineer's Office of the Marietta and Cincinnati Railroad, at Point Harmar, up to the 8th of September, inclusive, for the Graduation, Masonry and Bridging of 70 miles of this road, extending from the East end of the present contract in Vinton county to Marietta. This work is well worthy the attention of Contractors. There will be about 2000 feet of Tunnelling, with several deep cuts and high embankments. The line will be ready for examination eight or ten days prior to the day of letting. ination eight or ten days prior to the day of letting. Plans, profiles and specifications will be found at the Engineer's office in Athens and Harmar, and

all necessary information given upon the line of the road by the Resident Engineers. Separate proposals will be received for the Ma-Separate proposals will be received for the Massonry and Superstructure of the Bridge across the Muskingum at Marietta—this will be about 600 feet long and be furnished with a draw of 50 feet span.

W. P. CUTLER, President.

A. KENNEDY, Engineer.

Engineer's Office, M. & C. R. R., Chillicothe, July 16, 1852.

Railroad Contracts.

The state of the s

HE Mobile and Ohio Railroad Company here-by offer for contract the Graduation, Masonry and Bridging of 179 miles more of their road, extending from Section 64 of the last letting in Wayne Co. to the south line of Pontotoc Co., Miss.—the

The line will be ready for inspection on and after the first of August next. Also, plans, profiles and specifications will be exhibited, proposals received under seal, and contracts made at the follow-ing times and places, to wit:

August 15th-At Quitman, for line in Clarke

County.

25th—At Lauderdale Springs, for line in Lauderdale and Kemper Counties.

September 5th-At Macon, for line in Noxubee

15th—At Major Gilmore's, 16th section on "Robinson" Road, for line in Lowndes County.

25th—At Doct. Gillespie's, on Aberdeen and Houston Road, for line in Monroe County. 30th—At Okolona, for line in Chicka-

saw County.

From July 25th to August 10th, the profiles can be examined, and other information obtained, of C. B. Child, Esq., Resident Engineer, at Macon, Noxubee Co., Miss.

The grading upon 8 miles of this line is heavy and good car work. About 35 miles middling heavy, and the remaining 136 miles light.

The high and healthy country in which this line of work is situated, and the proposed letting of 250 miles more within twelve months to complete the

miles more within twelve months, to complete the road to the Ohio and Tennessee rivers, for which subscriptions are now partly taken up, render this work worthy the attention of contractors both north and south.

Chief Frances and Carrella E.

Chief Engineer and General Agent. New York, June 14th. 1852.

Cotton Steam Packing.

THIS Superior Packing is prepared by us express-ly for Locomotive Engines. The advantages re-sulting from its use are—cheapness—greater safety, and economy of labor. Orders addressed to us at 91 Wall st., New York,

Orders addresses will have prompt attention.

J. M. HALL & CO.

P. S,—Waste for cleaning engines, in quantities as wanted. July 24, 6m*

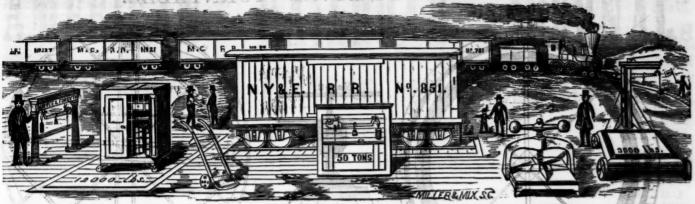
Railroad Iron.

1,000 TONS, 56 lbs. per lineal yard, shipped, and early in August, T pattern and of best quality.

Apply to DAVIS, BROOKS & CO.,

31st July. 1m

ROCHESTER SCALE WORK



DEPOT SCALE, 6: TONS, AND FIRE KING SAFE, CK SCALE, 100,000 LBS.

RAILBOAD MANIFEST PRES

DURYEE & FORSYTH, MANUFACTURERS, ROCHESTER, N. Y.

our Scales are preterable to all others, from the fact
of their being made stronger and more substantial,
more material used in the construction of the Levers,
which renders them much safer and more durable.

Our Morro is, to excel in the articles we manufacture; therefore the best materials are used. The best
model and plans are adopted, to make them the most
desirable for the market.

desirable for the market.

We wish it distinctly understood, that we use the best Cast Steel in the bearing edges of our Scales, although it has been otherwise reported by Messra. Fairbanks' Agents. We are ready at all times to test the merits of our Scales with any honorable competitive.

A large majority of the Track, Depot and Portable Scales in use by the New York and Eric Railroad Co. were furnished by us. Also, the Michigan Central Railroad is furnished exclusively with our Scales.

GENERAL DEPOTS:

Wm. T. Pinkney, Jr., Agent, 166 Pearl st., N.Y.
Raymond, Ward & Co., "Chicago, Ill.
Crawford & Reynolds, "Cleveland, Ohio.
Joseph E. Elder, "St. Louis, Mo.
Byram, Millier & Shreve, "Louisville, Ky.

taine,
Syracuse and Utica,
Columbus and Xenia,
Lexington and Frankfort,
Lexington and Frankfort,
Colicago and Galena,
Hillsboro' and Cincinnati,
Dayton and Western,
Control Ohio. Greenville and Miami, Central Ohio,

Respectfully yours,

J. W. BROOKS, Supt.

New York and Erie Railroad, Supt's Department Gen'l Freight Office, New York, June 21st, 1852. To Messes. Duryer & Forsyth,

Rochester.

Report on Duryce & Forsyth's Weigh Lock Scale, by the Committee of the State Agricultural Society.

Joseph E. Elder,
Byram, Millier & Shreve,
"Louisville, Ky.
The following Railroads have been furnished with our Scales and Wares, exclusively or nearly so:
New York and Erie,
New York and Halem,
New York and N. Haven,
Sandusky, Mansfield and N. Haven,
Sandusky, Mansfield and Indianapolis and Bellefontaine,
Syracuse and Utica,
Columbus and Xenia,
Leviserteen A. Syracuse,
Columbus and Xenia,
Leviserteen A. Syracuse,
Columbus and Xenia,

"Cleveland, Onio.
"St. Louis, Mo.
St. Louis He Committee appointed to examine the Weigh Lock Scale in the City of Rochester, manufactured Castle is \$250,900.
The committee appointed to examine the Weigh Lock Scale in the City of Rochester, manufactured Castle is \$250,900.
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The committee appointed to examine the Weigh Lock Scale in the City of Rochester, manufactured Castle is \$250,900.

committee tested it when under the pressure of a weight of 219 tons 900 lbs., and it clearly indicated a small additional weight within five pounds.

Any description of this Scale would hardly be intel-

Any description of this Scale would hardly be intelligible without drawings, which the committee have not at command. It has no equal known to the committee. They recommend that a Gold Medal from Richmond to Washington, will be completed and in operation in November next, which will awarded to Duryee & Forsyth, for the manufacture of an article so important to the protection of the rev-Greenville and Miami,
Cayuga and Susquehanna,
Chemung,
Illinois Coal Company,
Rutland and Washington,
Rife and State Line,
Riche and State Line,
Rochester, Lockport and
Niagra Fa'ls,
American Express Co.,
The Hon. Canal Commissioners, and Engineers of the Eric Canal Enlargement.

Amy descriptions

Any descriptions

Illinois Coal Company,
Buffalo and State Line,
Cleveland and Pittsburg,
American Express Co.,
The Hon. Canal Commissioners, and Engineers of the Eric canal, and to the accurate weighing of an incalculable amount of private property.

C. DEWEY,
DANIEL LF'.

DANIEL LF'.

THE Subscribers are prepared to furnish upon order, Railroad Scales of superior quality at reduced rates; Warehouse Trucks: Manifest Presses and Books; also, Covert's Fire King Safe.

It has been decided by Scientific Gentlemen, that our Scales are preferable to all others, from the fact of their, heing made stronger and more subscribed.

Respectfully yours,

Resp

\$200,000 SEVEN PER CENT.

the NEW-CASTLE and RICHMOND RAILROAD.—The undersigned offer for sale TWO
HUNDRED SEVEN PER CENT CONVERTIBLE BONDS for \$1,000 each, of the NEWCASTLE and RICHMOND RAILROAD COMPANY with largest Campons attacked Rochester,
Gents: This company have had in use on their road for three years past about fifty of your Railroad Track, Depot and Portable Scales. It affords me much pleasure to assure you that I consider them fully equal to any scale in use on the road, in point of strength, durability, accuracy and finish.

I am very respectfully, your ob't serv't, SAM. BROWN, Gen'l Freight Ag't.

These Bonds are Strukt BONDS for \$1,000 cach, of the NEW CASTLE and RICHMOND RAILROAD COM-PANY, with Interest Coupons attached, payable semi-annually at the office of the Ohio Life Insurance and Trust Company, in New York. The Bonds are payable at the same place in fifteen years and are convertible into the stock of the company within five years.

These Bonds are secured by a mortgage execu-

A large majority of the Track, Depot and Portable Scales in use by the New York and Eric Railroad Co. were furnished by us. Also, the Michgan Central Railroad is furnished exclusively with our Scales.

The facilities that we have for manufacturing with new and improved machinery, and the central position we occupy for shipping to the different markets, enables us to reduce the price of our Scales 10 to 15 per cent from former prices.

Our Mr. Duryee has had over twenty-one years practical experience in manufacturing. The work being under his charge furnishes a sure guaranty of the superiority of our wares. All orders will receive prompt attention.

DURYEE & FORSYTH.

General Deforts:

I am very respectfully, your ob't serv't,
SAM. BROWN, Gen'l Freight Ag't.

SAM. BROWN, Gen'l Freight Ag't.

The following Report was made by the Hon. Canal Commands are secured by a mortgage executed by the Company to George Carlisle, of Cincinnati, and Joseph B. Varnum of New York, Trustees of the road from Richmond in Wayne County, to New-Castle in Henry County, including the superistructure, iron rails, depots, tolls, privaled for it by its worthy and scientific builders.

Messrs. Duryee & Forsyth have constructed for this lock, scales of superior power, and may well challenge comparison with any similar work in or out of the New-Castle and Richmond Railroad extends from Richmond to Logansport, 103 miles, the simple, that great certainty is secured in determining whole of which is under contract, and about one

simple, that great certainty is secured in determining whole of which is under contract, and about one large or small weights. thousand hands are now employed on the road.

The total amount of stock subscribed upon the whole road is \$509,400. The stock applicable to

oushels of corn, one hundred and fifty thousand hogs, and fifteen thousand cattle, a large part of which must be transported to market on this road.

Michigan Central R. R. Office, Defroit, May 10th, 1852.

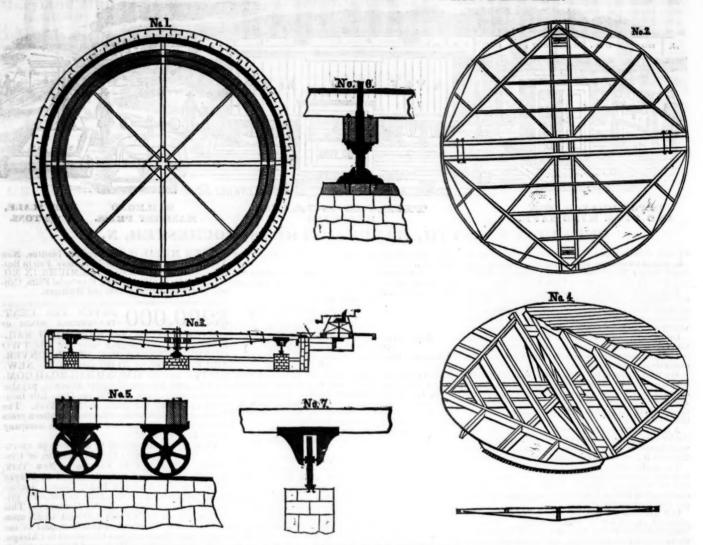
Messas. Duryer & Forsyth, Rochester Sept. 20th, 1851.

Rochester Sept. 20th, 1851.

We have received the Society's FIRST PREMINEDALS, Carpenting most of the company on the road from Richmond to New Castle, with the fron rails, superstructure, tolls and franchises of the company one hundred of your Scales, comprising most of the load will have for ther security the obligations of the company, with subscriprity the obligations of the company of the road from Richmond to New Castle, with the fron rails,
superstructure, tolls and franchises of the company
CARPENTER & VERMILYE, 44 Wall-st.

CARMANN WHITEHOUSE & Co., 56 Wall-st.

CARHART'S IMPROVED TURNTABLE.



THE Patentee of the improved Turntable solicits sonry—except excavating the pit and laying the carcass framing. Fig. 3 gives a side view of one panies. It has been in use on the Hudson River Railroad during the last three years, since which, some improvements have been made upon it. The Patentee is now putting down the fifth table on the Ohio and Pennsylvania Railroad, where these tables have been in use for one year past. The chief merits of this Turntable are that it is capable of being turned by two men, with an engine and tender upon it, weighing thirty-five tons, in the space of two minutes. Its cost, including all material, the best kind of workmanship in wood, iron and macross framing. Fig. 3 gives a side view of one track—is only thirteen hundred dollars, and all remain truss, with the mode of gearing, including pairs, except the ordinary wear and tear, will be rack and pinion. Fig. 4 gives a perspective view from in truss, with the mode of gearing, including pairs, except the ordinary wear and tear, will be rack and pinion. Fig. 5 an end view of the main trusks with pedestals and wheels. Fig. 5 on end view of the main trucks with pedestals and wheels. Fig. 6 inches in diameter, running to the top of the table, with the lever for adjustment. Fig. 7 shows the cross section of the track wall, which is spiked and leaded into the coping of the wall, the latter being composed of stone 2½ feet upon it, weighing thirty-five tons, in the space of the wall, the latter being composed of stone 2½ feet high and 20 scriber through WM. W. PRATT, Jersey City, two minutes. Its cost, including all material, the latter being composed of stone 2½ feet high and 20 scriber through WM. W. PRATT, Jersey City, two minutes. Its cost, including all material, the latter being composed of stone 2½ feet high and 20 scriber through WM. W. PRATT, Jersey City, two minutes. Its cost, including all material, the latter being composed of stone 2½ feet high and 20 scriber through WM. W. PRATT, Jersey City, two minutes with the mode of gea

New York and Canada.

The attention of Merchants, Tra

ders and travellers, is directed to the facilities now

ders and travellers, is directed to the facilities now afforded for the conveyance of freight and passengers direct from 'his city to Montreal.

The Champlain and St. Lawrence Railroad Company having opened their road from Rouse's Point to South Montreal, the only link before wanting to connect New York with Montreal by a continuous railroad, has been supplied.

Passengers leaving New York in the morning, sleep comfortably on the way, and arrive at Montre al at half past four the following afternoon, reducing the travelling time to little more than twenty hours. Freights are carried with the greatest care and dispatch, at greatly reduced rates.

After the opening of navigation, passengers will be conveyed from one city to the other by day light.

New York, Feb. 12, 1852.

THIS article now extensively used for the preservation of timber, is manufactured and for sale by POWERS & WEIGHTMAN, manufacturing Chemists, Philadelphia.

Jan. 20, 1849.

Dudley B. Fuller & Co.,
IRON COMMISSION MERCHANTS,
No. 139 GREENWICH STREET,
NEW YORK.

Smith & Tyson,, IRON COMMISSION MERCHANTS,

To Telegraph Companies.
TELEGRAPH WIRE.

ORDERS taken for all numbers of best quality of English Telegraph Wire. Samples at the office of the Subscribers. JEE, CARMER & CO., 6m*14

Spikes, Spikes, Spikes.

Any person wishing a simple and effective Spike Machine, or a number of them, may be supplied by addressing J. W. FLACK, Troy, N. Y. or, MOORE HARDAWAY, Richmond, Va.

March 6, 1850.

SHILL & Tysuns,
IRON COMMISSION MERCHANTS,
BALTIMORE.

Flat Rock, Boiler and Flue Iron, rolled to pattern.
Elbu, Wheel Iron of great strength and superior chilling properties. Elba Forge Iron, American Shot Iron, Cut Nails, Spikes and Brads, Nail and Spike cods, Railroad Spikes of superior quality, Wrought Chair plates of any pattern, punched or plain.

M. B. Hewson, Civil Engineer,
(Open to a New Engagement,)
Memphis, Tenn.